

QUARTERLY MONITORING REPORT

Second Quarter 2013
Quarterly Monitoring Report
Baldwin Hardware Corporation
Reading, Pennsylvania

3 July 2013

WO# 193807

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The Baldwin Hardware Corporation business, formerly owned by Stanley Black and Decker, was sold to Spectrum Brands in December, 2012. Ownership of the property at 841 E. Wyomissing Blvd., Reading, PA, formerly known as the Baldwin Hardware Corporation manufacturing site, remains with Stanley Black and Decker. Stanley Black and Decker continues to operate the groundwater remediation system at the site. References in this report to Baldwin Hardware Corporation should be interpreted within the context of the transaction described above.

This Second Quarter 2013 Monitoring Report has been prepared for Baldwin Hardware Corporation (Baldwin), Reading, Pennsylvania by Environmental Resources Management, Inc. (ERM). Quarterly monitoring and reporting is conducted at the Baldwin plant in accordance with the Administrative Order on Consent (Consent Order) executed between Baldwin and the U.S. Environmental Protection Agency (EPA) Region III. This report includes the following: results of the well sampling and analyses; water level elevations for the wells and piezometers; the treatment system influent and effluent analyses for trichloroethene (TCE) concentrations; a quality control (QC) report; and a quarterly progress report.

1.1***Background***

The Baldwin site is located approximately one-half mile southwest of the Schuylkill River in Reading, Pennsylvania. Custom brass hardware is manufactured at the plant. Pursuant to the Consent Order, Baldwin installed a ground water recovery, monitoring, and treatment system for remediation of volatile organic compounds (VOCs) in ground water. It was determined that TCE was released to the environment from former drying beds. The quarterly ground water monitoring system consists of the following elements:

- Three pumping wells (PW-5, PW-4, and PS-1);
- Two back-up pumping wells (PS-2 and PS-3);
- Four monitoring wells (OW-1, OW-2, OW-3S, OW-3D); and
- Ten piezometers (P-1, P-2, P-3S, P-3I, P-3D, P-4S, P-4I, P-4D, P-5S, and P-5D).

The locations of the wells are shown on Figure 1. Figure 1 also shows nearby wells (MW-3, 4, 6, 7) owned by Interstate Container Corporation which have been used in the past to provide supplementary water level data.

The recovery wells pump constantly at a rate of about 300 gallons per minute. The recovery system was activated in April 1988 and has functioned constantly since that time. The recovered ground water is treated by an air stripping tower and then used for plant processes. Any excess treated water is discharged with other plant NPDES wastewater streams in accordance with the Baldwin Pennsylvania Department of Environmental Protection (PADEP) -approved discharge permit.

In addition to ground water monitoring, the treatment system is also monitored on a monthly basis for TCE. The treatment system monitoring is performed at the following points:

- Tower influent to the treatment system;
- Tower effluent from the treatment system;
- Well PW-5 effluent, prior to treatment;
- Well PW-4 effluent, prior to treatment;
- Well PS-1 effluent, prior to treatment; and
- Well PS-2 effluent, prior to treatment.

Details of the recovery, monitoring, and treatment system are provided in the *Purge and Treatment System Certification Report*, 2 September 1988, prepared by Keck Consulting Services, Inc.

Water level measuring, well sampling, and analysis were performed by M. J. Reider Associates, Reading, Pennsylvania on 16 April 2013. The pump in PS-1 is damaged and not functioning; therefore no samples were collected from this location. Baldwin Hardware is currently assessing the feasibility of repairing the pump. In the interim, back-up pumping well PS-2, which is relatively close to PS-1 has been operated consistently for several years and continues to operate properly. The total flow rate to the treatment system has remained constant at 300 gpm.

Sample collection, handling, analysis, and QC sampling were performed in accordance with the protocols outlined in the Consent Order documents. In brief, the ground water samples collected from the two pumping wells, two back-up pumping wells and four monitoring wells were analyzed for VOCs by EPA Method 8260, selected total and dissolved metals, and general water quality parameters. Additionally, the

treatment system samples were analyzed monthly for select VOCs (including TCE) by Baldwin's internal laboratory using EPA Method 624.

2.0 MONITORING RESULTS

2.1 *Ground Water Monitoring Data*

The results of the Second Quarter 2013 well sampling and analysis for VOCs are summarized in Table 1. The inorganic analyses are summarized in Table 2. The complete laboratory report is provided in Appendix A. The results are also reported on the Pennsylvania Department of Environmental Protection (PADEP) *Form 19 Quarterly and Annual Water Quality Analyses* provided in Appendix B.

The VOC results for the Second Quarter sampling are generally consistent with past quarterly sampling results. TCE has continued to decrease in well PS-2 from 643 micrograms per liter ($\mu\text{g/l}$) in Fourth Quarter 2002 to 1.3 $\mu\text{g/l}$ detected in Second Quarter 2013. Similar trends have been observed for the following wells:

- PS-1 - The highest reported TCE concentration was 731 $\mu\text{g/l}$ measured in 1993. Although this well was not sampled during the second quarter of 2013, TCE levels at this well have been below 20 $\mu\text{g/l}$ since 2005;
- PW-4 - The highest reported TCE concentration was 1395 $\mu\text{g/l}$ measured in 2003. TCE concentrations have been below 80 $\mu\text{g/l}$ since 2009 and below 50 μg for the last two years; and
- OW-2 - The highest reported TCE concentration was 1200 $\mu\text{g/l}$ measured in 2002. The TCE concentrations have been below 20 $\mu\text{g/l}$ since 2006.

Federal Secondary Drinking Water Standards were exceeded in two of the monitoring wells for total iron (OW-3S and PS-3). The Federal Primary Drinking Water Standard was exceeded in one well (OW-3S) for total chromium. Total analysis are likely biased high due to the presence of suspended sediments in the sample, and are not indicative of metals that can migrate through the ground water system.

One ground water sample exceeded the Federal Secondary Drinking Water Standard for dissolved iron (PS-3). Dissolved concentrations are more indicative than total concentrations of metals that can migrate through the ground water system.

The water level data are provided in Table 3; ground water potentiometric contours for the Second Quarter event are shown on Figure 1. Water levels were measured in most of the wells prior to evacuation and sampling. Water levels were not measured at PS-1, PS-2, PS-3, P-3S, P-3I, P-3D and P-4D. The Second Quarter 2013 water levels are consistent with prior water levels, indicating that the direction of ground water flow under pumping conditions remains consistent.

2.2

Treatment System Monitoring

The results of the monthly treatment system monitoring for TCE are provided in Table 4. As shown, the reported tower influent TCE concentrations ranged between 32 and 58 µg/l. Effluent concentrations were non-detect at a detection limit of 5 µg/l, indicating that the treatment system is functioning properly. The target effluent concentration for TCE is less than 100 µg/l.

2.3

QC Report

The results of the QC sampling for VOCs, metals and general water quality parameters are provided in Appendix A. None of the VOCs detected in the well samples were detected in the trip blank samples. Chloroform was positively identified in the Field Blank and Rinsate associated with all samples (13.3 µg/l and 12.8 µg/l respectively). Chloroform was positively identified in sample PS-2 (1.1 µg/l) only. This positive detection has been negated, and qualified with a "<", as suspected blank contamination. The reporting limit (RL) for chloroform in sample PS-2 has been raised to 1.1 µg/l. No VOCs were detected in the method blank. With few exceptions, the matrix spike sample recoveries, the standard sample results, and the laboratory duplicate results were all generally within acceptable levels. No other qualification of any sample data is required. The data is accurate, precise, and complete in accordance with the level of QC required by the Consent Order.

3.0

PROGRESS REPORT

Compliance activities performed for the Second Quarter 2013 period include well and treatment system sampling and analysis, the collection of water level measurements in the wells and piezometers, as described above, and reporting. With the timely submission of this report, all

compliance activities and deadlines will have been met. The recovery and treatment system at the Baldwin site continues to operate as designed and as approved by U.S. EPA.

Figures

LEGEND

- ◆ Purge Well Location (PW and PS Series)
- ◆ Observation Well Location (OW Series)
- ◆ Piezometer Location (P Series)
- ◆ Interstate Container Corp. Well Location (MW Series)
- Property Line

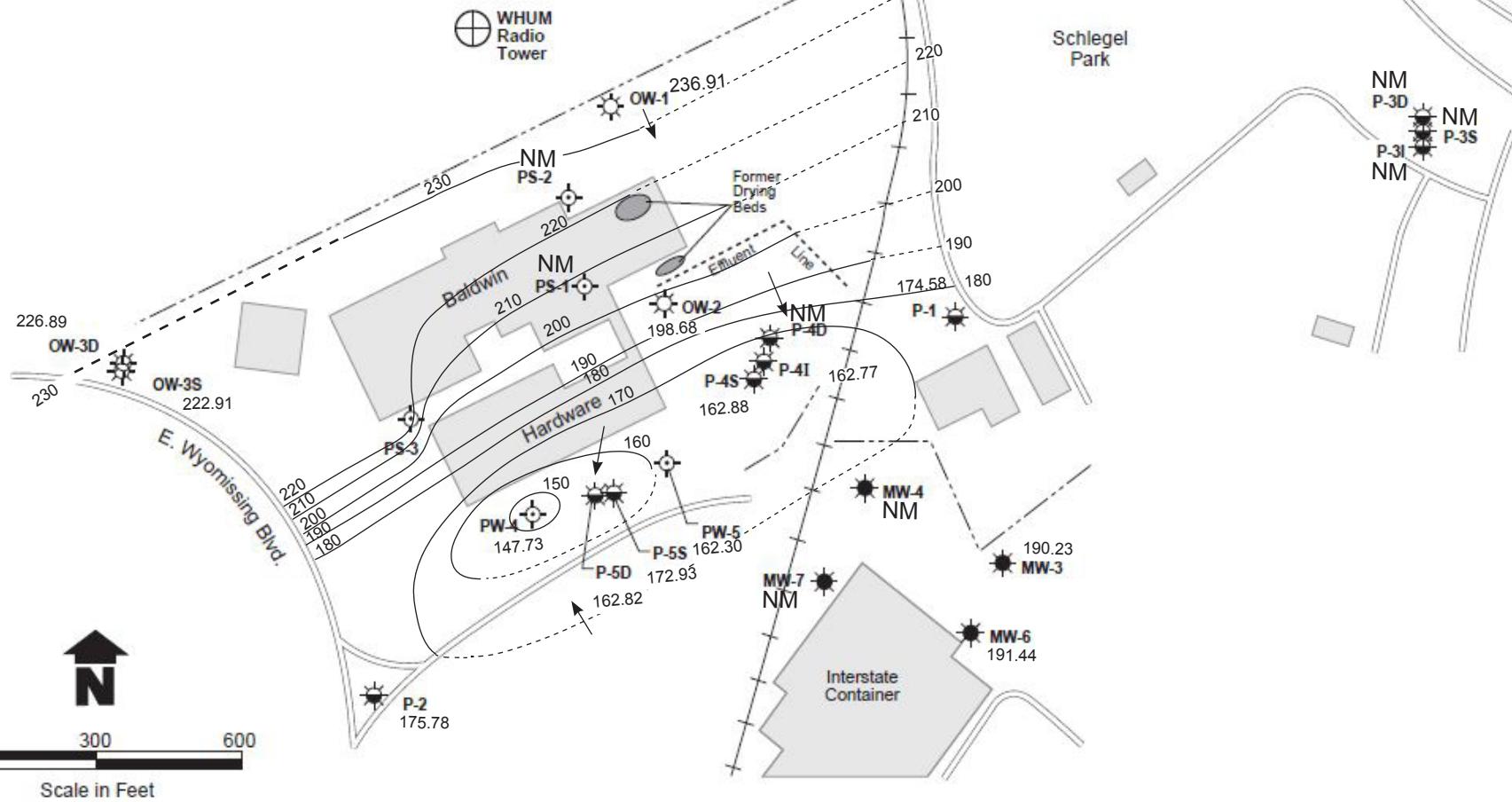
226.89 Ground Water Elevation on in Feet Above Mean Sea Level (msl)

180 — Ground Water Elevation Contour (Feet msl; Dashed where Inferred)

← Inferred Direction of Ground Water Flow

Source: Purge and Treatment Certification Report, Keck Consulting Services, 1988

Figure 1
Ground Water Elevation
Contour Map
16 April 2013
Baldwin Hardware Corporation
Reading, Pennsylvania



Tables

Table 1
Organic Ground Water Quality Data for 2nd Quarter 2013 Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Detected Volatile Organic Compounds ($\mu\text{g/l}$)	WELLS										OW-2 Duplicate
	OW-1	OW-2	OW-3S	OW-3D	PS-1	PS-2	PS-3	PW-4	PW-5		
Trichloroethylene	ND	1.6	ND	ND	NS	1.3	ND	0.9	47.0		1.6
Cis-1,2-Dichloroethylene	ND	2.4	ND	ND	NS	0.6	ND	1.4	6.6		2.4
Tetrachloroethylene	ND	ND	ND	ND	NS	ND	ND	0.7	3.0		ND
1,1-Dichloroethane	ND	ND	ND	ND	NS	ND	ND	1.0	ND		ND
1,1-Dichloroethylene	ND	ND	ND	ND	NS	ND	ND	ND	ND		ND
Benzene	ND	ND	ND	38.7	NS	ND	ND	ND	ND		ND
1,2-Dichloroethane	ND	ND	ND	1.6	NS	ND	ND	ND	ND		ND
Chloroform	ND	ND	ND	ND	NS	< 1.1	ND	ND	ND		ND
1,1,1-Trichloroethane	ND	ND	ND	ND	NS	ND	ND	3.7	1.4		ND

Detected Volatile Organic Compounds ($\mu\text{g/l}$)	Quality Control Samples				
	Trip Blank 4/15/2013	Trip Blank 4/16/2013	Field Blank 4/15/2013	Field Blank 4/16/2013	Bailer Rinsate 4/15/2013
	ND	ND	13.3	ND	12.8

ND - Not detected at or above laboratory reporting limits of 0.5 to 10 $\mu\text{g/l}$.

NS- Not Sampled during the this event.

$\mu\text{g/l}$ - Micrograms per liter.

< - Parameter was not detected at a level above that detected in blank sample

Table 2
Inorganic Ground Water Quality Data for 1st Quarter 2013 Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Chemistry (mg/l)	Standards	WELLS									OW-2 Duplicate
		OW-1	OW-2	OW-3S	OW-3D	PS-1	PS-2	PS-3	PW-4	PW-5	
Specific Conductance (μmhos)	---	467	711	910	504	NS	746	397	904	824	711
pH (standard units)	6.5-8.5 S	7.5	7.6	6.8	7.3	NS	7.4	6.8	7.6	7.5	7.6
Sulfate	250 S	21	70	40	31	NS	63	69	62	45	72
Total Organic Carbon	---	0.6	0.7	0.7	0.6	NS	0.7	<.5	0.7	0.5	0.6
Chloride	250 S	4	41	100	8	NS	41	1	92	75	42
Cyanide, Total	0.2 *	<.004	<.004	<.004	<.004	NS	<0.004	<.004	<.004	<.004	<.004
Phenols	---	<.01	<.01	<.01	0.010	NS	0.013	<.01	0.016	<.01	0.017
Total Metals (mg/l)											
Barium	2.0 P	0.050	0.055	0.175	0.131	NS	0.062	0.045	0.109	0.130	0.054
Cadmium	0.005 P	<.0005	<.0005	<.0005	<.0005	NS	<.0005	<.0005	<.0005	<.0005	<.0005
Chromium	0.1 P	0.0020	0.0037	0.329	0.0047	NS	0.0034	0.0013	0.0052	0.0020	0.0044
Copper	1.0 S	<.001	<.001	0.005	<.001	NS	0.004	0.010	0.001	<.001	<.001
Iron	0.3 S	0.07	0.10	1.90	0.17	NS	<.02	0.42	<.02	<.02	0.10
Lead	0.015 P	<.001	0.002	<.001	<.001	NS	<.001	0.002	<.001	<.001	0.002
Manganese	0.05 S	<.001	0.001	0.043	0.005	NS	0.003	0.031	<.001	<.001	<.001
Nickel	0.1 P	0.0030	0.0059	0.0612	0.0035	NS	0.0046	0.0018	0.0049	0.0050	0.0065
Silver	0.1 S	<.0005	<.0005	<.0005	<.0005	NS	<.0005	<.0005	<.0005	<.0005	<.0005
Sodium	---	1.2	27.2	37.8	1.5	NS	12.7	0.8	39.2	31.5	27.5
Zinc	5.0 S	0.006	0.270	<.005	<.005	NS	0.006	0.081	<.005	<.005	0.265
Dissolved Metals (mg/l)											
Barium	2.0 P	0.051	0.054	0.159	0.137	NS	0.061	0.045	0.109	0.128	0.056
Cadmium	0.005 P	<.0005	<.0005	<.0005	<.0005	NS	<.0005	<.0005	<.0005	<.0005	<.0005
Chromium	0.1 P	0.0017	0.0022	0.0018	0.0014	NS	0.0035	0.0013	0.0054	0.0020	0.0025
Copper	1.0 S	<.001	<.001	<.001	<.001	NS	0.005	<.001	<.001	<.001	<.001
Iron	0.3 S	<.02	<.02	<.02	0.15	NS	<.02	0.32	<.02	<.02	<.02
Lead	0.015 P	<.001	<.001	<.001	<.001	NS	<.001	<.001	<.001	<.001	<.001
Manganese	0.05 S	<.001	<.001	0.002	0.005	NS	0.004	0.031	<.001	<.001	<.001
Nickel	0.1 P	0.0030	0.0058	0.0496	0.0029	NS	0.0046	0.0019	0.0047	0.0051	0.0067
Silver	0.1 S	<.0005	<.0005	<.0005	<.0005	NS	<.0005	<.0005	<.0005	<.0005	<.0005
Zinc	5.0 S	0.007	0.258	<.005	<.005	NS	0.008	0.046	<.005	<.005	0.256

< - Not detected at or above indicated laboratory reporting limit.

NS - Not sampled during this quarterly event.

* No standard exists for total cyanide, value is for free cyanide.

mg/l - Milligrams per liter.

--- - No standard, S - Secondary Drinking Water Standard, P - Primary Drinking Water Standard

Shaded values exceed either the Primary or Secondary Federal Drinking Water Standard.

Table 3
Water Level Data for 1996 through 2012 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Well	Surveyed Top of Casing Elevation*	Depth to Water (feet)	Water Level Elevation*														
		2/1/29/96	2/1/29/96	4/23/24/96	4/23/24/96	7/8/9/96	7/8/9/96	10/7/8/96	10/7/8/96	1/13/14/97	1/13/14/97	4/3/1997	4/3/1997	7/28/29/97	7/28/29/97	10/27/28/97	10/27/28/97
OW-1	292.60	58.92	233.68	58.62	233.98	64.48	228.12	67.44	225.16	58.36	234.24	58.33	234.27	66.02	226.58	69.58	223.02
OW-2	251.92	47.78	204.14	47.94	203.98	53.05	198.87	56.48	195.44	51.43	200.49	48.77	203.15	57.33	194.59	56.77	195.15
OW-3S	269.37	45.15	224.22	45.25	224.12	45.94	223.43	46.48	222.89	45.47	223.90	43.60	225.77	46.47	222.90	47.34	222.03
OW-3D	269.37	40.83	228.54	38.91	230.46	43.39	225.98	44.5	224.87	39.92	229.45	40.97	228.40	43.69	225.68	46.91	222.46
PS-1	257.71	99.28	158.43	116.10	141.61	126.45	131.26	144.18	113.53	115.97	141.74	75.38	182.33	136.80	120.91	144.60	113.11
PS-2	260.11	72.62	187.49	77.36	182.75	77.4	182.71	74.62	185.49	82.22	177.89	78.79	181.32	68.30	191.81	89.00	171.11
PS-3	249.51	78.68	170.83	107.4	142.11	113.38	136.13	111.25	138.26	139.21	110.30	130.05	119.46	82.40	167.11	58.00	191.51
PW-4	234.97	56.05	178.92	59.43	175.54	70.89	164.08	76.31	158.66	75.13	159.84	73.91	161.06	85.75	149.22	90.20	144.77
PW-5	224.11	49.65	174.46	52.41	171.70	60.4	163.71	67.61	155.60	55.42	168.69	54.57	169.54	66.50	157.61	72.97	151.14
P-1	206.90	27.08	179.82	28.81	178.09	31.56	175.34	33.44	173.46	29.84	177.06	29.63	177.27	33.23	173.67	36.18	170.72
P-2	232.92	50.54	182.38	51.79	181.13	54.87	178.05	57.49	175.43	52.10	180.82	52.47	180.45	57.22	175.70	57.00	175.92
P-3S	191.84	11.37	180.47	11.84	180.00	12.98	178.86	13.32	178.52	12.61	179.23	12.10	179.74	13.17	178.67	13.64	178.20
P-3I	191.87	13.22	178.65	14.26	177.61	14.91	176.96	14.98	176.89	14.94	176.93	14.10	177.77	15.10	176.77	15.30	176.57
P-3D	192.00	10.34	181.66	11.31	180.69	12.68	179.32	13.4	178.60	12.22	179.78	11.92	180.08	12.76	179.24	13.21	178.79
P-4S	239.15	60.55	178.60	64.18	174.97	74.13	165.02	76.81	162.34	68.20	170.95	66.62	172.53	79.62	159.53	79.90	159.25
P-4I	239.15	60.72	178.43	64.35	174.80	74.29	164.86	79.7	159.45	68.29	170.86	66.66	172.49	81.19	157.96	87.53	151.62
P-4D	239.15	56.22	182.93	58.39	180.76	64.35	174.80	68.02	171.13	60.12	179.03	58.79	180.36	67.22	171.93	70.97	168.18
P-5S	231.55	Inaccessible	---	57.46	174.09	67.93	163.62	72.02	159.53	61.22	170.33	50.20	181.35	73.58	157.97	79.91	151.64
P-5D	232.23	Inaccessible	---	50.03	182.20	66.82	165.41	72.86	159.37	62.85	169.38	61.75	170.48	74.04	158.19	80.25	151.98
RIVER	215.77	41.28	174.49	42.87	172.90	43.04	172.73	42.95	172.82	43.60	172.17	42.57	173.20	43.43	172.34	44.32	171.45

Well	Surveyed Top of Casing Elevation*	Depth to Water (feet)	Water Level Elevation*														
		1/29/30/98	1/29/30/98	4/30/5/1998	4/30/5/1998	7/27/28/98	7/27/28/98	10/22/23/98	10/22/23/98	1/21/22/99	1/21/22/99	4/29/30/99	4/29/30/99	7/22/23/99	7/22/23/99	10/21/22/99	10/21/22/99
OW-1	292.60	63.22	229.38	58.48	234.12	65.32	227.28	68.20	224.40	69.57	223.03	59.78	232.82	69.38	223.22	70.03	222.57
OW-2	251.92	50.98	200.94	51.31	200.61	54.86	197.06	57.36	194.56	55.95	195.97	53.65	198.27	57.47	194.45	57.97	193.95
OW-3S	269.37	46.69	222.68	45.95	223.42	46.63	222.74	47.00	222.37	47.74	221.63	46.95	222.42	48.28	221.09	47.22	222.15
OW-3D	269.37	44.40	224.97	41.73	227.64	43.44	225.93	45.58	223.79	47.35	222.02	44.10	225.27	49.08	220.29	46.57	222.80
PS-1	257.71	56.80	200.91	161.10	96.61	175.80	81.91	199.70	58.01	206.90	50.81	173.70	84.01	210.60	47.11	208.90	48.81
PS-2	260.11	74.80	185.31	48.15	211.96	69.80	190.31	45.07	215.04	48.68	211.43	39.25	220.86	92.58	167.53	88.70	171.41
PS-3	249.51	31.50	218.01	31.00	218.51	33.40	216.11	35.47	214.04	80.88	168.63	32.32	217.19	33.80	215.71	47.48	202.03
PW-4	234.97	63.90	171.07	NM	--	83.77	151.20	83.88	151.09	80.62	154.35	87.07	147.90	84.51	150.46	84.91	150.06
PW-5	224.11	60.50	163.61	57.44	166.67	65.88	158.23	70.52	153.59	67.16	156.95	65.46	158.65	66.65	157.46	68.02	156.09
P-1	206.90	31.17	175.73	30.16	176.74	32.70	174.20	34.61	172.29	31.95	174.95	32.71	174.19	34.79	172.11	33.14	173.76
P-2	232.92	56.57	176.35	53.72	179.20	56.51	176.41	59.22	173.70	58.51	174.41	57.53	175.39	60.07	172.85	59.10	173.82
P-3S	191.84	12.18	179.66	12.21	179.63	13.17	178.67	13.19	178.65	12.18	179.66	12.81	179.03	13.67	178.17	12.57	179.27
P-3I	191.87	14.39	177.48	14.78	177.09	15.77	176.10	15.65	176.22	13.78	178.09	15.47	176.40	15.68	176.19	15.20	176.67
P-3D	192.00	11.72	180.28	11.64	180.36	12.72	179.28	12.64	179.36	11.65	180.35	12.44	179.56	12.98	179.02	11.88	180.12
P-4S	239.15	73.78	165.37	70.71	168.44	79.64	159.51	79.98	159.17	80.15	159.00	79.79	159.36	80.02	159.13	79.90	159.25
P-4I	239.15	73.82	165.33	70.79	168.36	80.08	159.07	85.01	154.14	81.42	157.73	80.55	158.60	81.99	157.16	82.57	156.58
P-4D	239.15	61.76	177.39	60.42	178.73	65.26	173.89	68.33	170.82	66.32	172.83	64.64	174.51	67.69	171.46	66.92	172.23
P-5S	231.55	66.67	164.88	63.60	167.95	72.47	159.08	77.28	154.27	73.97	157.58	73.07	158.48	74.44	157.11	74.89	156.66
P-5D	232.23	67.58	164.65	64.75	167.48	73.09	159.14	77.85	154.38	74.30	157.93	73.70	158.53	75.11	157.12	75.22	157.01
RIVER	215.77	43.27	172.50	42.62	173.15	43.80	171.97	44.43	171.34	41.37	174.40	43.65	172.12	44.06	171.71	43.13	172.64

* Feet above mean sea level.

NM - Not Measured.

Table 3 (cont.)
Water Level Data for 1996 through 2012 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Surveyed Top of Casing Well	Depth to Water (feet) 1/19-20/00	Water Level Elevation* 1/19-20/00	Depth to Water (feet) 4/19-20/00	Water Level Elevation* 4/19-20/00	Depth to Water (feet) 7/19-20/00	Water Level Elevation* 7/19-20/00	Depth to Water (feet) 1/25-26/01	Water Level Elevation* 1/25-26/01	Depth to Water (feet) 4/18-19/01	Water Level Elevation* 4/18-19/01	Depth to Water (feet) 7/18-19/01	Water Level Elevation* 7/18-19/01	Depth to Water (feet) 10/17-18/01	Water Level Elevation* 10/17-18/01	Depth to Water (feet) 1/15-16/02	Water Level Elevation* 1/15-16/02	
OW-1	292.60	68.82	223.78	54.79	237.81	57.11	235.49	70.00	222.60	53.33	239.27	58.56	234.04	70.00	222.60	70.00	181.92
OW-2	251.92	58.75	193.17	51.54	200.38	49.65	202.27	68.88	183.04	54.68	197.24	57.44	194.48	58.00	193.92	55.55	196.37
OW-3S	269.37	48.39	220.98	46.24	223.13	46.81	222.56	48.57	220.80	46.70	222.67	46.53	222.84	47.90	221.47	48.58	220.79
OW-3D	269.37	50.32	219.05	43.96	225.41	41.77	227.60	49.76	219.61	45.60	223.77	44.14	225.23	47.60	221.77	46.80	222.57
PS-1	257.71	199.30	58.41	99.20	158.51	86.30	171.41	206.50	51.21	207.50	50.21	198.00	59.71	69.23	188.48	61.84	195.87
PS-2	260.11	96.70	163.41	99.60	160.51	NM	--	64.80	195.31	102.70	157.41	138.15	121.96	94.51	165.60	55.15	204.96
PS-3	249.51	33.00	216.51	23.22	226.29	28.11	221.40	34.40	215.11	30.50	219.01	30.16	219.35	30.65	218.86	31.85	217.66
PW-4	234.97	92.70	142.27	58.83	176.14	60.19	174.78	88.68	146.29	79.70	155.27	74.95	160.02	79.10	155.87	82.50	152.47
PW-5	224.11	72.10	152.01	52.85	171.26	53.38	170.73	71.78	152.33	62.30	161.81	63.18	160.93	67.35	156.76	70.45	153.66
P-1	206.90	34.70	172.20	29.55	177.35	30.49	176.41	36.15	170.75	34.80	172.10	31.70	175.20	34.93	171.97	36.15	170.75
P-2	232.92	61.04	171.88	53.37	179.55	54.20	178.72	62.30	170.62	56.55	176.37	56.13	176.79	60.12	172.80	61.90	171.02
P-3S	191.84	12.86	178.98	12.38	179.46	12.91	178.93	13.60	178.24	11.95	179.89	12.90	178.94	13.94	177.90	NM	--
P-3I	191.87	14.98	176.89	14.85	177.02	15.27	176.60	15.45	176.42	14.50	177.37	15.56	176.31	16.00	175.87	NM	--
P-3D	192.00	12.39	179.61	11.82	180.18	12.27	179.73	12.78	179.22	11.25	180.75	12.46	179.54	13.15	178.85	NM	--
P-4S	239.15	80.15	159.00	64.46	174.69	64.79	174.36	79.90	159.25	76.64	162.51	76.31	162.84	79.55	159.60	80.02	159.13
P-4I	239.15	86.34	152.81	64.87	174.28	65.17	173.98	86.15	153.00	76.75	162.40	76.55	162.60	81.72	157.43	84.81	154.34
P-4D	239.15	70.77	168.38	59.77	179.38	58.14	181.01	69.62	169.53	64.32	174.83	64.57	174.58	66.97	172.18	67.55	171.60
P-5S	231.55	78.60	152.95	57.02	174.53	57.38	174.17	NM	--	69.00	162.55	68.80	162.75	74.03	157.52	77.90	153.65
P-5D	232.23	78.88	153.35	59.86	172.37	60.55	171.68	78.75	153.48	69.82	162.41	69.72	162.51	74.90	157.33	76.80	155.43
RIVER	215.77	43.18	172.59	42.84	172.93	43.47	172.30	43.35	172.42	42.89	172.88	43.58	172.19	43.96	171.81	43.95	207.97

Surveyed Top of Casing Well	Depth to Water (feet) 4/9-10/02	Water Level Elevation* 4/9-10/02	Depth to Water (feet) 7/9-10/02	Water Level Elevation* 7/9-10/02	Depth to Water (feet) 10/9-10/02	Water Level Elevation* 10/9-10/02	Depth to Water (feet) 1/28-30/03	Water Level Elevation* 1/28-30/03	Depth to Water (feet) 4/15-16/03	Water Level Elevation* 4/15-16/03	Depth to Water (feet) 7/15-16/03	Water Level Elevation* 7/15-16/03	Depth to Water (feet) 10/14-15/03	Water Level Elevation* 10/14-15/03	Depth to Water (feet) 1/13-14/04	Water Level Elevation* 1/13-14/04	
OW-1	292.60	69.20	223.40	68.70	223.90	69.10	223.50	58.00	234.60	50.95	241.65	54.33	238.27	65.03	227.57	52.61	239.99
OW-2	251.92	66.40	185.52	60.60	191.32	69.55	182.37	57.23	194.69	52.28	199.64	55.43	196.49	51.11	200.81	52.65	199.27
OW-3S	269.37	48.95	220.42	48.15	221.22	49.06	220.31	46.32	223.05	42.70	226.67	45.50	223.87	46.00	223.37	45.93	223.44
OW-3D	269.37	49.62	219.75	45.25	224.12	50.09	219.28	44.72	224.65	40.00	229.37	39.70	229.67	41.03	228.34	39.37	230.00
PS-1	257.71	169.50	88.21	100.28	157.43	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
PS-2	260.11	88.90	171.21	63.49	196.62	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
PS-3	249.51	32.25	217.26	33.61	215.90	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
PW-4	234.97	89.69	145.28	93.28	141.69	92.25	142.72	77.59	157.38	84.82	150.15	85.00	149.97	81.04	153.93	NM	--
PW-5	224.11	72.92	151.19	71.91	152.20	74.31	149.80	62.20	161.91	58.00	166.11	62.41	161.70	62.00	162.11	NM	--
P-1	206.90	36.38	170.52	35.17	171.73	38.58	168.32	NM	--	NM	--	30.25	176.65	31.01	175.89	29.92	176.98
P-2	232.92	62.85	170.07	61.46	171.46	63.84	169.08	55.62	177.30	51.13	181.79	53.76	179.16	55.31	177.61	53.10	179.82
P-3S	191.84	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
P-3I	191.87	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
P-3D	192.00	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
P-4S	239.15	80.48	158.67	80.00	159.15	82.23	156.92	76.02	163.13	73.25	165.90	61.00	178.15	77.19	161.96	73.31	165.84
P-4I	239.15	87.90	151.25	86.83	152.32	92.80	146.35	76.90	162.25	72.40	166.75	74.79	164.36	77.11	162.04	73.31	165.84
P-4D	239.15	69.92	169.23	68.50	170.65	72.50	166.65	62.41	176.74	60.98	178.17	74.81	164.34	61.91	177.24	59.45	179.70
P-5S	231.55	79.91	151.64	78.87	152.68	82.32	149.23	NM	--	NM	--	NM	--	NM	--	65.85	165.70
P-5D	232.23	80.35	151.88	79.56	152.67	76.06	156.17	NM	--	NM	--	NM	--	NM	--	NM	--
RIVER	215.77	43.20	172.57	44.12	171.65	43.80	171.97	39.12	176.65	45.00	170.77	44.02	171.75	37.41	178.36	43.16	172.61

* Feet above mean sea level.

NM - Not Measured.

Table 3 (cont.)
Water Level Data for 1996 through 2012 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Well	Surveyed Top of Casing Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*
		4/12-13/04	7/19-20/04	10/11-12/04	1/17-18/05	4/11-12/05	7/11-12/05	10/11-12/05	1/12-13/06						
OW-1	292.60	52.88	239.72	50.47	242.13	53.57	239.03	50.45	242.15	49.68	242.92	56.91	235.69	65.19	227.41
OW-2	251.92	51.13	200.79	49.90	202.02	50.15	201.77	46.47	205.45	44.41	207.51	50.64	201.28	53.11	198.81
OW-3S	269.37	46.00	223.37	45.25	224.12	45.70	223.67	45.09	224.28	44.61	224.76	46.51	222.86	46.90	222.47
OW-3D	269.37	38.31	231.06	38.05	231.32	34.41	234.96	36.91	232.46	36.23	233.14	42.00	227.37	43.39	225.98
PS-1	257.71	NM	---	NM	---	NM	---	NM	---	63.91	193.80	76.50	181.21	NM	---
PS-2	260.11	NM	---	NM	---	NM	---	NM	---	52.39	207.72	50.71	209.40	36.85	223.26
PS-3	249.51	NM	---	NM	---	NM	---	NM	---	23.17	226.34	20.72	228.79	29.57	219.94
PW-4	234.97	NM	---	56.02	178.95	76.01	158.96	72.63	162.34	76.84	158.13	82.75	152.22	96.35	138.62
PW-5	224.11	NM	---	49.10	175.01	52.87	171.24	53.61	170.50	55.67	168.44	57.19	166.92	61.52	162.59
P-1	206.90	31.12	175.78	27.82	179.08	25.95	180.95	NM	---	26.51	180.39	31.66	175.24	31.35	175.55
P-2	232.92	55.49	177.43	44.68	188.24	52.03	180.89	45.28	187.64	48.35	184.57	55.34	177.58	56.50	176.42
P-3S	191.84	NM	---	NM	---	NM	---	NM	---	10.93	180.91	12.16	179.68	11.39	180.45
P-3I	191.87	NM	---	NM	---	NM	---	NM	---	13.81	178.06	14.91	176.96	14.50	177.37
P-3D	192.00	NM	---	NM	---	NM	---	NM	---	10.64	181.36	12.44	179.56	11.61	180.39
P-4S	239.15	75.54	163.61	61.36	177.79	68.00	171.15	57.02	182.13	58.57	180.58	73.02	166.13	73.16	165.99
P-4I	239.15	75.60	163.55	61.50	177.65	68.22	170.93	56.71	182.44	58.90	180.25	73.00	166.15	73.16	165.99
P-4D	239.15	59.60	179.55	54.00	185.15	68.20	170.95	52.79	186.36	54.25	184.90	63.52	175.63	63.58	175.57
P-5S	231.55	68.34	163.21	55.02	176.53	61.37	170.18	NM	---	51.75	179.80	65.51	166.04	65.29	166.26
P-5D	232.23	69.20	163.03	56.70	175.53	62.60	169.63	63.04	169.19	53.95	178.28	66.41	165.82	65.91	166.32
RIVER	215.77	39.14	176.63	42.15	173.62	44.11	171.66	41.03	174.74	41.70	174.07	42.82	172.95	42.25	173.52
4/25-26/06		Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*
7/11-12/06		4/25-26/06	7/11-12/06	11/29-30/06	11/29-30/06	3/12-13/07	3/12-13/07	5/1/2007	5/1/2007	9/18-19/07	9/18-19/07	12/10-11/07	12/10-11/07	1/28-29/08	1/28-29/08
OW-1	292.60	60.49	232.11	62.16	230.44	54.29	238.31	52.88	239.72	51.31	241.29	69.82	222.78	69.91	222.69
OW-2	251.92	56.83	195.09	56.73	195.19	53.63	198.29	53.78	198.14	53.09	198.83	57.95	193.97	58.31	193.61
OW-3S	269.37	47.19	222.18	47.01	222.36	46.30	223.07	46.67	222.70	45.86	223.51	47.52	221.85	47.91	221.46
OW-3D	269.37	46.43	222.94	45.49	223.88	42.41	226.96	43.31	226.06	41.36	228.01	48.51	220.86	49.77	219.60
PS-1	257.71	NM	---	NM	---	NM	---	130.05	127.66	129.28	128.43	119.56	138.15	118.64	139.07
PS-2	260.11	NM	---	NM	---	NM	---	96.00	164.11	97.11	163.00	94.50	165.61	96.13	163.98
PS-3	249.51	30.32	219.19	28.68	220.83	28.56	220.95	29.15	220.36	28.41	221.10	32.41	217.10	31.41	218.10
PW-4	234.97	90.51	144.46	82.85	152.12	94.75	140.22	85.21	149.76	61.93	173.04	95.45	139.52	92.23	142.74
PW-5	224.11	60.25	163.86	57.00	167.11	56.21	167.90	56.07	168.04	52.82	171.29	63.20	160.91	61.64	162.47
P-1	206.90	31.58	175.32	30.58	176.32	29.93	176.97	27.62	179.28	29.24	177.66	31.15	175.75	32.59	174.31
P-2	232.92	57.05	175.87	54.60	178.32	53.82	179.10	54.26	178.66	52.35	180.57	54.42	178.50	57.83	175.09
P-3S	191.84	11.62	180.22	14.32	177.52	11.29	180.55	10.98	180.86	11.45	180.39	12.15	179.69	11.79	180.05
P-3I	191.87	14.11	177.76	14.19	177.68	14.13	177.74	13.02	178.85	14.49	177.38	18.01	173.86	14.68	177.19
P-3D	192.00	11.83	180.17	11.41	180.59	11.35	180.65	10.76	181.24	11.53	180.47	13.62	178.38	11.49	180.51
P-4S	239.15	75.09	164.06	71.72	167.43	70.68	168.47	70.35	168.80	66.66	172.49	70.05	169.10	76.44	162.71
P-4I	239.15	75.09	164.06	71.72	167.43	70.65	168.50	70.41	168.74	66.72	172.43	70.16	168.99	76.44	162.71
P-4D	239.15	66.32	172.83	63.72	175.43	62.40	176.75	62.58	176.57	60.99	178.16	64.44	174.71	66.59	172.56
P-5S	231.55	64.40	167.15	64.13	167.42	63.35	168.20	63.71	167.84	59.25	172.30	61.33	170.22	68.93	162.62
P-5D	232.23	67.95	164.28	65.02	167.21	63.95	168.28	64.32	167.91	60.41	171.82	62.71	169.52	68.63	163.60
RIVER	215.77	41.88	173.89	42.00	173.77	41.81	173.96	40.25	175.52	42.27	173.50	43.13	172.64	43.79	171.98

* Feet above mean sea level.

NM - Not Measured.

(1) Outer well casing broken off to ground level.

Table 3 (cont.)
Water Level Data for 1996 through 2012 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Well	Surveyed Top of Casing Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*
	5/5-6/2008	5/5-6/2008	8/24-25/2008	8/24-25/2008	12/10-11/2008	12/10-11/2008	2/17-18/2009	2/17-18/2009	6/16-17/2009	6/16-17/2009	8/17-18/2009	8/17-18/2009	11/16-30/2009	11/16-30/2009	3/1-5/2010	3/1-5/2010	
OW-1	292.60	58.14	234.46	70.00	222.60	70.19	222.41	69.69	222.91	67.71	224.89	67.64	224.96	66.20	226.40	53.54	239.06
OW-2	251.92	57.07	194.85	58.62	193.30	58.64	193.28	57.38	194.54	55.45	196.47	55.75	196.17	55.22	196.70	51.01	200.91
OW-3S	269.37	46.71	222.66	37.34	232.03	48.59	220.78	47.41	221.96	47.58	221.79	47.03	222.34	46.90	222.47	46.04	223.33
OW-3D	269.37	45.95	223.42	49.85	219.52	51.01	218.36	47.91	221.46	48.49	220.88	46.00	223.37	46.29	223.08	42.30	227.07
PS-1	257.71	161.45	96.26	143.71	114.00	81.52	176.19	68.98	188.73	84.61	173.10	63.65	194.06	63.75	193.96	60.21	197.50
PS-2	260.11	NM	---	102.22	157.89	NM	---										
PS-3	249.51	29.94	219.57	33.94	215.57	31.92	217.59	30.05	219.46	38.92	210.59	29.86	219.65	29.94	219.57	20.64	228.87
PW-4	234.97	88.64	146.33	95.60	139.37	93.49	141.48	88.72	146.25	90.11	144.86	88.65	146.32	91.53	143.44	91.93	143.04
PW-5	224.11	57.33	166.78	61.50	162.61	70.02	154.09	65.31	158.80	63.65	160.46	61.95	162.16	61.74	162.37	54.65	169.46
P-1	206.90	28.48	178.42	33.47	173.43	36.35	170.55	33.56	173.34	35.37	171.53	32.13	174.77	31.48	175.42	22.31	184.59
P-2	232.92	54.31	178.61	57.73	175.19	61.51	171.41	58.73	174.19	60.27	172.65	56.93	175.99	56.31	176.61	47.98	184.94
P-3S	191.84	11.12	180.72	15.96	175.88	12.13	179.71	12.24	179.60	13.41	178.43	NM	---	NM	---	NM	---
P-3I	191.87	13.64	178.23	12.92	178.95	14.91	176.96	15.17	176.70	15.89	175.98	NM	---	NM	---	NM	---
P-3D	192.00	11.31	180.69	13.03	178.97	12.20	179.80	12.28	179.72	13.46	178.54	NM	---	NM	---	NM	---
P-4S	239.15	71.89	167.26	77.02	162.13	79.99	159.16	79.80	159.35	78.26	160.89	77.60	161.55	76.98	162.17	67.60	171.55
P-4I	239.15	71.87	167.28	77.11	162.04	84.58	154.57	80.13	159.02	78.28	160.87	77.62	161.53	77.03	162.12	68.43	170.72
P-4D	239.15	63.31	175.84	67.44	171.71	71.56	167.59	67.02	172.13	(1)	---	NM	---	NM	---	NM	---
P-5S	231.55	62.27	169.28	69.41	162.14	76.76	154.79	72.41	159.14	70.35	161.20	70.15	161.40	69.42	162.13	60.22	171.33
P-5D	232.23	64.54	167.69	70.00	162.23	77.38	154.85	73.15	159.08	71.35	160.88	71.00	161.23	70.33	161.90	61.53	170.70
RIVER	215.77	39.19	176.58	43.29	172.48	41.30	174.47	43.92	171.85	41.05	174.72	42.16	173.61	41.12	174.65	39.67	176.10

Well	Surveyed Top of Casing Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*
	5/18-19/2010	5/18-19/2010	8/16-24/2010	8/16-24/2010	11/15-16/2010	11/15-16/2010	3/7-11/2011	3/7-11/2011	5/16-17/2011	5/16-17/2011	9/16-17/2011	9/16-17/2011	11/30-12/1/2011	11/30-12/1/2011	2/13/2012	2/13/2012	
OW-1	292.60	53.86	238.74	68.78	223.82	70.22	222.38	52.21	240.39	53.00	239.60	54.67	237.93	51.95	240.65	52.33	240.27
OW-2	251.92	52.86	199.06	57.83	194.09	57.71	194.21	51.59	200.33	53.03	198.89	51.50	200.42	51.89	200.03	53.09	198.83
OW-3S	269.37	46.05	223.32	47.03	222.34	47.31	222.06	46.79	222.58	45.86	223.51	45.62	223.75	45.64	223.73	45.95	223.42
OW-3D	269.37	43.93	225.44	46.79	222.58	47.28	222.09	45.30	224.07	42.37	227.00	41.19	228.18	42.43	226.94	43.68	225.69
PS-1	257.71	62.63	195.08	68.00	189.71	69.42	188.29	62.95	194.76	60.94	196.77	58.53	199.18	60.27	197.44	62.65	195.06
PS-2	260.11	NM	---														
PS-3	249.51	22.81	226.70	28.24	221.27	29.65	219.86	22.16	227.35	24.81	224.70	22.14	227.37	24.58	224.93	26.88	222.63
PW-4	234.97	95.35	139.62	94.23	140.74	91.85	143.12	92.94	142.03	89.45	145.52	95.85	139.12	85.22	149.75	87.31	147.66
PW-5	224.11	56.46	167.65	63.65	160.46	64.49	159.62	57.75	166.36	56.67	167.44	48.55	175.56	51.55	172.56	56.92	167.19
P-1	206.90	30.21	176.69	32.48	174.42	33.05	173.85	20.68	186.22	29.65	177.25	24.80	182.10	28.05	178.85	29.56	177.34
P-2	232.92	55.63	177.29	57.57	175.35	57.99	174.93	44.45	188.47	54.93	177.99	50.14	182.78	51.45	181.47	53.04	179.88
P-3S	191.84	NM	---														
P-3I	191.87	NM	---														
P-3D	192.00	NM	---														
P-4S	239.15	75.37	163.78	77.66	161.49	78.16	160.99	65.84	173.31	75.77	163.38	70.98	168.17	65.76	173.39	67.19	171.96
P-4I	239.15	76.95	162.20	78.39	160.76	78.79	160.36	65.21	173.94	76.28	162.87	70.12	169.03	65.73	173.42	67.14	172.01
P-4D	239.15	NM	---														
P-5S	231.55	68.44	163.11	70.32	161.23	70.93	160.62	57.79	173.76	67.85	163.70	62.22	169.33	58.54	173.01	60.23	171.32
P-5D	232.23	69.41	162.82	71.14	161.09	71.51	160.72	58.33	173.90	68.76	163.47	63.84	168.39	59.81	172.42	61.97	170.26
RIVER	215.77	47.18	168.59	49.98	165.79	49.23	166.54	30.56	185.21	46.33	169.44	39.58	176.19	42.36	173.41	49.68	166.09

* Feet above mean sea level.

NM - Not Measured.

(1) Outer well casing broken off to ground level.

Table 3 (cont.)
Water Level Data for 1996 through 2013 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Well	Surveyed Top of Casing Elevation*	Depth to Water (feet)	Water Level Elevation*								
		5/14-15/2012	5/14-15/2012	8/15/2012	8/15/2012	11/15-16/12	11/15-16/12	1/22/2013	1/22/2013	4/16/2013	4/16/2013
OW-1	292.60	62.19	230.41	69.43	223.17	69.21	223.39	63.08	229.52	55.69	236.91
OW-2	251.92	55.81	196.11	57.21	194.71	67.25	225.35	65.63	186.29	53.24	198.68
OW-3S	269.37	46.31	223.06	47.73	221.64	47.22	204.70	43.96	225.41	46.46	222.91
OW-3D	269.37	46.02	223.35	48.70	220.67	72.83	196.54	45.04	224.33	42.48	226.89
PS-1	257.71	58.47	199.24	69.42	188.29	NM	---	NM	---	NM	---
PS-2	260.11	NM	---								
PS-3	249.51	22.94	226.57	26.45	223.06	NM	---	NM	---	NM	---
PW-4	234.97	95.98	138.99	98.87	136.10	85.73	163.78	84.20	150.77	87.24	147.73
PW-5	224.11	62.44	161.67	56.70	167.41	59.32	175.65	63.62	160.49	61.81	162.30
P-1	206.90	32.12	174.78	29.42	177.48	31.57	192.54	32.70	174.20	32.32	174.58
P-2	232.92	56.60	176.32	53.67	179.25	55.96	150.94	58.02	174.90	57.14	175.78
P-3S	191.84	NM	---								
P-3I	191.87	NM	---								
P-3D	192.00	NM	---								
P-4S	239.15	70.49	168.66	73.47	165.68	74.22	117.78	78.21	160.94	76.27	162.88
P-4I	239.15	70.42	168.73	73.09	166.06	74.20	164.95	78.25	160.90	76.38	162.77
P-4D	239.15	NM	---								
P-5S	231.55	64.14	167.41	66.74	164.81	69.64	169.51	70.57	160.98	58.62	172.93
P-5D	232.23	65.73	166.50	68.05	164.18	67.26	164.29	71.30	160.93	69.41	162.82
RIVER	215.77	48.30	167.47	41.38	174.39	46.14	246.46	45.16	170.61	42.25	173.52

* Feet above mean sea level.

NM - Not Measured.

(1) Outer well casing broken off to ground level.

Table 4
Monthly Treatment System Influent and Effluent TCE Concentrations
for 1995 through 2013 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Sample	Trichloroethene (µg/l)																							
	1995												1996											
	Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Combined Influent	340	419	417	533	403	379	343	399	345	393	224	376	530	554	625	902	623	418	495	810	629	484	556	910
Effluent	4	5	3	7	3	3	1	1	9	8	2	4	3	7	5	8	8	3	8	9	4	6	8	8
PS-1	569	988	1180	940	692	526	488	534	529	480	533	631	907	983	638	597	526	488	476	654	509	536	559	701
PS-2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
PW-4	1442	1699	1792	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
PW-5	254	231	253	350	390	295	263	347	248	367	223	254	424	592	453	740	466	455	416	537	451	378	415	764
Blank	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	5	2	1	3	2	0	NR	2	0
Blank	NS	NS	NS	NS	NS	NS	NS	0	NS	NS	NS	NS	0	NS	1	NS	NS	0	NS	NS	NS	NR	10	NR

Table 4 (continued)
Monthly Treatment System Influent and Effluent TCE Concentrations
for 1995 through 2013 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Sample	Trichloroethene (μg/l)																							
	2003						2004																	
Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	
Tower Influent	368	277	186	314	182	143	171	210	170	152	190	310	200	190	160	160	305	178	350	190	1140	280	130	232
Tower Effluent	12	5	6	6	<5	<5	<5	5	<5	<5	6	6	220	12	<5	<5	6	15	5	<5	7	<5	<5	<5
PS-1	245	270	266	163	238	224	189	270	180	220	240	220	170	70	7	54	152	39	34	29	24	29	23	30
PS-2	438*	384*	283*	341*	240*	284*	186*	270*	190*	220*	220*	210*	200*	150*	86*	43*	30*	40*	48*	NS	NS	NS	NS	NS
PW-4	1310	1562	1320	826	556	605	488	510	480	420	420	320	210	220	100	33	17	20	22	9	32	7	10	6
PW-5	199	70	82	205	98	64	156	190	130	110	150	340	220	220	180	160	195	154	290	259	240	220	150	280
Blank	<5	<5	<5	6	<5	<6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Sample	Trichloroethene (μg/l)																							
	2005						2006																	
Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	
Tower Influent	180	110	80	176	110	100	2,900 (1)	2,480 (1)	80	96	61	350	50	1030	45	53	189	43	210	200	316	110	48	48
Tower Effluent	9	<5	<5	<5	<5	<5	7	<5	<5	<5	16	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PS-1	19	20	15	8	10	11	17	19	15	25	13	18	12	14	8	13	15	11	8	10	8	7	12	7
PS-2	NS	NS	12	NS	NS	NS	NS	NS	NS	NS	NS	17	27	15	14	15	16	8	8	9	9	6	9	7
PW-4	17	<5	<5	<5	23	11	16	29	77	115	27	31	14	<5	12	41	25	48	<5	14	14	13	12	<5
PW-5	120	140	120	198	130	120	149	93	70	99	64	55	50	50	52	61	46	44	51	53	44	37	38	44
Blank	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NS	<5	<5	<5	<5	<5	<5

Sample	Trichloroethene (μg/l)																							
	2007						2008																	
Jan	Feb	March	Apr	May	June	July	July***	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec
Tower Influent	106	18	59	121	30	153	174	170	46	<5	104	100	104	46	41	96	159	<5	96	118	116	176	89	98
Tower Effluent	<5	<5	<5	<5	<5	<5	12	<5	<5	<5	<5	9	<5	<5	<5	14	122 (2)	<5	<5	5	<5	<5	<5	<5
PS-1	6	7	10	6	<5	5	9	6	6	7	7	6	14	12	13	11	10	9	<5	6	14	7	6	6
PS-2	6	6	8	7	6	<5	50	5	8	8	9	10	<5	6	2	7	8	9	<5	7	5	7	8	7
PW-4	<5	14	<5	<5	<5	<5	14	<5	47	54	40	22	54	25	58	58	42	<5	<5	<	34	28	8	7
PW-5	48	45	52	77	77	53	5	35	45	40	41	22	<5	37	49	72	42	>5	74	9	32	29	49	45
Blank	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Sample	Trichloroethene (μg/l)																							
	2009						2010																	
Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec	
Tower Influent	75	60	67	49	88	61	38	58	56	74	44	48	48	39	62	57	49	49	74	84	68	57	41	50
Tower Effluent	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PS-1	6	<5	5	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	14	<5	<5	<5	<5	<5	<5	<5	34	<5
PS-2	7	6	<5	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	32	<5
PW-4	6	59	36	106	43	56	<5	42	<5	48	44	59	37	42	63	50	38	<5	44	82	64	<5	28	30
PW-5	48	56	36	51	44	64	110	42	68	52	54	58	42	60	64	50	40	39	42	59	50	41	36	28
Blank	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Sample	Trichloroethene (μg/l)																							
	2011						2012																	
Jan	Feb	March	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec	
Tower Influent	29	39	84	72	62	68	75	60	37	46	44	54	92	48	43	50	40	50	45	34	39	76	42	53
Tower Effluent	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PS-1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PS-2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PW-4	30	<5	50	59	74	68	<5	48	98	<5	<5	<5	<5	<5	<5	<5	<5	15	33	73	38	118	47	44
PW-5	45	47	77	60	74	<5	70	48	100	34	42	72	62	50	53	41	56	44						

Table 4 (continued)
Monthly Treatment System Influent and Effluent TCE Concentrations
for 1995 through 2013 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Sample	Trichloroethene ($\mu\text{g/l}$)					
	2013					
	Jan	Feb	March	Apr	May	June
Tower Influent	36	<5	44	36	58	32
Tower Effluent	<5	<5	<5	<5	<5	<5
PS-1	NS	NS	NS	NS	NS	NS
PS-2	<5	<5	<5	<5	<5	<5
PW-4	30	9	<5	46	<5	<5
PW-5	36	44	33	<5	62	35
Blank	<5	<5	<5	<5	<5	<5

$\mu\text{g/l}$ - Micrograms per liter.

NR - Not Reported.

NS - Not Sampled.

< - Not detected at or above the indicated reporting limit.

* In August 2004, Baldwin Hardware determined that the variable frequency drive for the PS-2 well pump had malfunctioned and not operated correctly for an indeterminate time. Subsequent comparison of the PS-2 flow rate and concentration data to the Tower influent flow rate and concentration data suggests that the PS-2 well pump may not have run consistently since 2000. The results for well PS-2 between January 2000 and July 2004 are flagged (*) to note this.

** - This concentration is considered anomalously high based on the combined Influent concentration.

*** - This is a confirmation sample collected on 30 July 2007. Original sample collected on 17 July 2007.

(1) - This concentration is considered anomalously high based on the individual well concentrations. Additionally, the second vial had a concentration of 80 ug/L which is more consistent with the historic TCE concentrations and the concentrations of TCE in the individual well samples.

(2) - It appears that the analytical results for the May 2008 influent/effluent results have been switched, although ERM was unable to confirm this with the laboratory.

Appendix A
Laboratory Analytical Report

CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.



Attention: Robin Guynn
 Reported To: Environmental Resources Mgt. Inc.
 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015306

Date Collected: 04/15/13 10:30
 Collected By: pgb

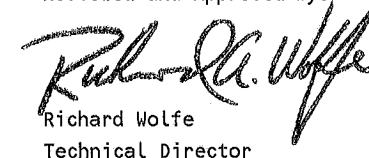
Sample Desc: OW-1 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORIMETRIC								
Cyanide, Total	<.004	mg/l	.004	1	10204001X	04/17	15:11	JCL
Phenols (4AAP)	<.01	mg/l	.01	1	EPA 420.4	04/17	12:07	JCL
ION CHROMAT								
Chloride	4	mg/l	2	2	EPA 300.0	04/15	19:12	JAE
Sulfate	21	mg/l	2	2	EPA 300.0	04/15	19:12	JAE
OTHER								
Total Organic Carbon	0.6	mg/l	.5	1	SM5310 C	04/16	22:10	ALD
FIELD								
PHYSICAL								
Conductivity-Field	467	umhos/cm	1	1	SM 2510B	04/15	10:30	PGB
pH-Field	7.5	su	1	1	SM4500H-B	04/15	10:30	PGB
Temperature - Field	12.4	c	.1	1	SM 2550B	04/15	10:30	PGB
INORGANIC								
DISSOLVED								
Barium, Dissolved	0.051	mg/l	.005	1	EPA 200.8	04/18	15:17	RLS
Cadmium, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS
Chromium, Dissolved	0.0017	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS
Copper, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	15:17	RLS
Iron, Dissolved	<.02	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	15:17	RLS
Manganese, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	15:17	RLS
Nickel, Dissolved	0.0030	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS
Silver, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS
Zinc, Dissolved	0.007	mg/l	.005	1	EPA 200.8	04/18	15:17	RLS
TOTAL								
Barium, Total	0.050	mg/l	.005	1	EPA 200.8	04/18	15:17	RLS
Cadmium, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS
Chromium, Total	0.0020	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS

Distribution of Reports:

Reviewed and Approved by:


 Richard Wolfe
 Technical Director

Page 1 of 3

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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.



Attention: Robin Guynn
 Reported To: Environmental Resources Mgt. Inc.
 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015306

Date Collected: 04/15/13 10:30
 Collected By: pgb

Sample Desc: OW-1 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Test Time	Test Analyst
Copper, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	15:17	RLS
Iron, Total	0.07	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	15:17	RLS
Manganese, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	15:17	RLS
Nickel, Total	0.0030	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS
Silver, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS
Sodium, Total	1.2	mg/l	.5	1	EPA 200.7	04/16	10:56	LNA
Zinc, Total	0.006	mg/l	.005	1	EPA 200.8	04/18	15:17	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloropropane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,3-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,4-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
2-Chloroethylvinyl Ether	<10	ug/l	10	1	SW846 8260	04/18	09:51	GXF
Benzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromoform (Tribromomethane)	<2	ug/l	2	1	SW846 8260	04/18	09:51	GXF
Bromomethane (Methyl Bromide)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Carbon Tetrachloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorodibromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloroethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Chloroform	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloromethane (Methyl Chloride)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF

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M.J. Reider Associates, Inc.



Attention: Robin Guynn
 Reported To: Environmental Resources Mgt. Inc.
 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015306

Date Collected: 04/15/13 10:30
 Collected By: pgb

Sample Desc: OW-1 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
cis-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Xylenes (Total)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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Attention: Robin Guynn
 Reported To: Environmental Resources Mgt. Inc.
 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015307

Date Collected: 04/15/13 11:35
 Collected By: pgb

Sample Desc: OW-2 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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CHEMISTRY

COLORIMETRIC

Cyanide, Total	<.004	mg/l	.004	1	10204001X	04/17	15:11	JCL
Phenols (4AAP)	<.01	mg/l	.01	1	EPA 420.4	04/17	12:07	JCL

ION CHROMAT

Chloride	41	mg/l	5	5	EPA 300.0	04/15	19:44	JAE
Sulfate	70	mg/l	5	5	EPA 300.0	04/15	19:44	JAE

OTHER

Total Organic Carbon	0.7	mg/l	.5	1	SM5310 C	04/16	22:10	ALD
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FIELD

PHYSICAL

Conductivity-Field	711	umhos/cm	1	1	SM 2510B	04/15	11:35	PGB
pH-Field	7.6	su	1	1	SM4500H-B	04/15	11:35	PGB
Temperature - Field	15.4	C	1	1	SM 2550B	04/15	11:35	PGB

INORGANIC

DISSOLVED

Barium, Dissolved	0.054	mg/l	.005	1	EPA 200.8	04/18	15:17	RLS
Cadmium, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS
Chromium, Dissolved	0.0022	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS
Copper, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	15:17	RLS
Iron, Dissolved	<.02	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	15:17	RLS
Manganese, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	15:17	RLS
Nickel, Dissolved	0.0058	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS
Silver, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS
Zinc, Dissolved	0.258	mg/l	.005	1	EPA 200.8	04/18	15:17	RLS

TOTAL

Barium, Total	0.055	mg/l	.005	1	EPA 200.8	04/18	15:17	RLS
Cadmium, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS
Chromium, Total	0.0037	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS

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 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015307

Date Collected: 04/15/13 11:35
 Collected By: pgb

Sample Desc: OW-2 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Test Time	Test Analyst
Copper, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	15:17	RLS
Iron, Total	0.10	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Total	0.002	mg/l	.001	1	EPA 200.8	04/18	15:17	RLS
Manganese, Total	0.001	mg/l	.001	1	EPA 200.8	04/18	15:17	RLS
Nickel, Total	0.0059	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS
Silver, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/18	15:17	RLS
Sodium, Total	27.2	mg/l	.5	1	EPA 200.7	04/16	10:56	LNA
Zinc, Total	0.270	mg/l	.005	1	EPA 200.8	04/18	15:17	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2,2-Tetrachloroethane	<5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2-Trichloroethane	<5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethane	<5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethylene	<5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloroethane	<5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloropropane	<5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,3-Dichlorobenzene	<5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,4-Dichlorobenzene	<5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
2-Chloroethylvinyl Ether	<10	ug/l	10	1	SW846 8260	04/18	09:51	GXF
Benzene	<5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromoform (Tribromomethane)	<2	ug/l	2	1	SW846 8260	04/18	09:51	GXF
Bromomethane (Methyl Bromide)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Carbon Tetrachloride	<5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorodibromomethane	<5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloroethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Chloroform	<5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloromethane (Methyl Chloride)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF

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Attention: Robin Guynn
 Reported To: Environmental Resources Mgt. Inc.
 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015307

Date Collected: 04/15/13 11:35
 Collected By: pgb

Sample Desc: OW-2 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
cis-1,2-Dichloroethylene	2.4	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichloroethylene	1.6	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Xylenes (Total)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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Attention: Robin Guynn
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 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015308
 Date Collected: 04/15/13 09:15
 Collected By: pgb

Sample Desc: OW-3S Baldwin Hardware Facility

Date Received: 04/15/13 13:55

Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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CHEMISTRY

COLORIMETRIC

Cyanide, Total	<.004	mg/L	.004	1	10204001X	04/17	15:11	JCL
Phenols (4AAP)	<.01	mg/L	.01	1	EPA 420.4	04/17	12:07	JCL

ION CHROMAT

Chloride	100	mg/L	10	10	EPA 300.0	04/15	20:16	JAE
Sulfate	40	mg/L	10	10	EPA 300.0	04/15	20:16	JAE

OTHER

Total Organic Carbon	0.7	mg/L	.5	1	SM5310 C	04/16	22:10	ALD
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FIELD

PHYSICAL

Conductivity-Field	910	umhos/cm	1	1	SM 2510B	04/15	09:15	PGB
pH-Field	6.8	su	1	1	SM4500H-B	04/15	09:15	PGB
Temperature - Field	14.1	C	.1	1	SM 2550B	04/15	09:15	PGB

INORGANIC

DISSOLVED

Barium, Dissolved	0.159	mg/L	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Dissolved	0.0018	mg/L	.0005	1	EPA 200.8	04/18	22:33	RLS
Copper, Dissolved	<.001	mg/L	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Dissolved	<.02	mg/L	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Dissolved	<.001	mg/L	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Dissolved	0.002	mg/L	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Dissolved	0.0496	mg/L	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	04/23	14:32	LNA
Zinc, Dissolved	<.005	mg/L	.005	1	EPA 200.8	04/18	22:33	RLS

TOTAL

Barium, Total	0.175	mg/L	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Total	<.0005	mg/L	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Total	0.329	mg/L	.0005	1	EPA 200.8	04/18	22:33	RLS

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 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015308

Date Collected: 04/15/13 09:15
 Collected By: pgb

Sample Desc: OW-3S Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Test Time	Test Analyst
Copper, Total	0.005	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Total	1.90	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Total	0.043	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Total	0.0612	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA
Sodium, Total	37.8	mg/l	.5	1	EPA 200.7	04/16	10:56	LNA
Zinc, Total	<.005	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloropropane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,3-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,4-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
2-Chloroethylvinyl Ether	<10	ug/l	10	1	SW846 8260	04/18	09:51	GXF
Benzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromoform (Tribromomethane)	<2	ug/l	2	1	SW846 8260	04/18	09:51	GXF
Bromomethane (Methyl Bromide)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Carbon Tetrachloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorodibromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloroethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Chloroform	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloromethane (Methyl Chloride)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF

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Date of Report: 04/25/13
 Lab ID: 761-13-0015308

Date Collected: 04/15/13 09:15
 Collected By: pgb

Sample Desc: OW-3S Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Test Time	Test Analyst
cis-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Xylenes (Total)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Robin Guynn
 Reported To: Environmental Resources Mgt. Inc.
 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015309

Date Collected: 04/15/13 09:40
 Collected By: pgb

Sample Desc: OW-3D Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORIMETRIC								
Cyanide, Total	<.004	mg/l	.004	1	10204001X	04/17	15:11	JCL
Phenols (4AAP)	0.010	mg/l	.01	1	EPA 420.4	04/17	12:07	JCL
ION CHROMAT								
Chloride	8	mg/l	2	2	EPA 300.0	04/15	20:48	JAE
Sulfate	31	mg/l	2	2	EPA 300.0	04/15	20:48	JAE
OTHER								
Total Organic Carbon	0.6	mg/l	.5	1	SM5310 C	04/16	22:10	ALD
FIELD								
PHYSICAL								
Conductivity-Field	504	umhos/cm	1	1	SM 2510B	04/15	09:40	PGB
pH-Field	7.3	su	1	1	SM4500H-B	04/15	09:40	PGB
Temperature - Field	13.3	c	.1	1	SM 2550B	04/15	09:40	PGB
INORGANIC								
DISSOLVED								
Barium, Dissolved	0.137	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Dissolved	0.0014	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Copper, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Dissolved	0.15	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Dissolved	0.005	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Dissolved	0.0029	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA
Zinc, Dissolved	<.005	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
TOTAL								
Barium, Total	0.131	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Total	0.0047	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS

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Richard Wolfe
Technical Director

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Date of Report: 04/25/13
 Lab ID: 761-13-0015309
 Date Collected: 04/15/13 09:40
 Collected By: pgb

Sample Desc: OW-3D Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Time	Test Analyst
Copper, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Total	0.17	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Total	0.005	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Total	0.0035	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA
Sodium, Total	1.5	mg/l	.5	1	EPA 200.7	04/16	10:56	LNA
Zinc, Total	<.005	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloroethane	1.6	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloropropane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,3-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,4-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
2-Chloroethylvinyl Ether	<10	ug/l	10	1	SW846 8260	04/18	09:51	GXF
Benzene	38.7	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromoform (Tribromomethane)	<2	ug/l	2	1	SW846 8260	04/18	09:51	GXF
Bromomethane (Methyl Bromide)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Carbon Tetrachloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorodibromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloroethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Chloroform	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloromethane (Methyl Chloride)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF

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 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015309

Date Collected: 04/15/13 09:40
 Collected By: pgb

Sample Desc: OW-3D Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Test Time	Test Analyst
cis-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Xylenes (Total)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015311

Date Collected: 04/15/13 12:55
 Collected By: pgb

Sample Desc: PS-2 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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CHEMISTRY

COLORIMETRIC

Cyanide, Total	<.004	mg/L	.004	1	10204001X	04/17	15:11	JCL
Phenols (4AAP)	0.013	mg/L	.01	1	EPA 420.4	04/17	12:07	JCL

ION CHROMAT

Chloride	41	mg/L	5	5	EPA 300.0	04/15	21:20	JAE
Sulfate	63	mg/L	5	5	EPA 300.0	04/15	21:20	JAE

OTHER

Total Organic Carbon	0.7	mg/L	.5	1	SM5310 C	04/16	22:10	ALD
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FIELD

PHYSICAL

Conductivity-Field	746	umhos/cm	1	1	SM 2510B	04/15	12:55	PGB
pH-Field	7.4	su	1	1	SM4500H-B	04/15	12:55	PGB
Temperature - Field	15.7	C	.1	1	SM 2550B	04/15	12:55	PGB

INORGANIC

DISSOLVED

Barium, Dissolved	0.061	mg/L	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Dissolved	0.0035	mg/L	.0005	1	EPA 200.8	04/18	22:33	RLS
Copper, Dissolved	0.005	mg/L	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Dissolved	<.02	mg/L	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Dissolved	<.001	mg/L	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Dissolved	0.004	mg/L	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Dissolved	0.0046	mg/L	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	04/23	14:32	LNA
Zinc, Dissolved	0.008	mg/L	.005	1	EPA 200.8	04/18	22:33	RLS

TOTAL

Barium, Total	0.062	mg/L	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Total	<.0005	mg/L	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Total	0.0034	mg/L	.0005	1	EPA 200.8	04/18	22:33	RLS

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Date of Report: 04/25/13
 Lab ID: 761-13-0015311

Date Collected: 04/15/13 12:55
 Collected By: pgb

Sample Desc: PS-2 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Time	Test Analyst
Copper, Total	0.004	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Total	<.02	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Total	0.003	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Total	0.0046	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA
Sodium, Total	12.7	mg/l	.5	1	EPA 200.7	04/16	10:56	LNA
Zinc, Total	0.006	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloropropane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,3-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,4-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
2-Chloroethylvinyl Ether	<10	ug/l	10	1	SW846 8260	04/18	09:51	GXF
Benzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromoform (Tribromomethane)	<2	ug/l	2	1	SW846 8260	04/18	09:51	GXF
Bromomethane (Methyl Bromide)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Carbon Tetrachloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorodibromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloroethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Chloroform	1.1	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloromethane (Methyl Chloride)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF

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Richard Wolfe
Technical Director

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Date of Report: 04/25/13
 Lab ID: 761-13-0015311

Date Collected: 04/15/13 12:55
 Collected By: pgb

Sample Desc: PS-2 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Test Time	Test Analyst
cis-1,2-Dichloroethylene	0.6	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichloroethylene	1.3	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Xylenes (Total)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015312

Date Collected: 04/16/13 10:05
 Collected By: pgb

Sample Desc: PS-3 Baldwin Hardware Facility

Date Received: 04/16/13 11:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORIMETRIC								
Cyanide, Total	<.004	mg/l	.004	1	10204001X	04/17	15:11	JCL
Phenols (4AAP)	<.01	mg/l	.01	1	EPA 420.4	04/17	12:07	JCL
ION CHROMAT								
Chloride	1	mg/l	1	1	EPA 300.0	04/16	13:08	JAE
Sulfate	69	mg/l	5	5	EPA 300.0	04/16	14:12	JAE
OTHER								
Total Organic Carbon	<.5	mg/l	.5	1	SM5310 C	04/23	21:16	ALD
FIELD								
PHYSICAL								
Conductivity-Field	397	umhos/cm	1	1	SM 2510B	04/16	10:05	PGB
pH-Field	6.8	su	1	1	SM4500H-B	04/16	10:05	PGB
Temperature - Field	13.3	C	.1	1	SM 2550B	04/16	10:05	PGB
INORGANIC								
DISSOLVED								
Barium, Dissolved	0.045	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Dissolved	0.0013	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Copper, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Dissolved	0.32	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Dissolved	0.031	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Dissolved	0.0019	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA
Zinc, Dissolved	0.046	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
TOTAL								
Barium, Total	0.045	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Total	0.0013	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS

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M.J. Reider Associates, Inc.



Attention: Robin Guynn
 Reported To: Environmental Resources Mgt. Inc.
 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015312

Date Collected: 04/16/13 10:05
 Collected By: pgb

Sample Desc: PS-3 Baldwin Hardware Facility

Date Received: 04/16/13 11:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Test Time	Analyst
Copper, Total	0.010	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Total	0.42	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Total	0.002	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Total	0.031	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Total	0.0018	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA
Sodium, Total	0.8	mg/l	.5	1	EPA 200.7	04/19	12:51	LNA
Zinc, Total	0.081	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloropropane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,3-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,4-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
2-Chloroethylvinyl Ether	<10	ug/l	10	1	SW846 8260	04/18	09:51	GXF
Benzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromoform (Tribromomethane)	<2	ug/l	2	1	SW846 8260	04/18	09:51	GXF
Bromomethane (Methyl Bromide)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Carbon Tetrachloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorodibromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloroethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Chloroform	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloromethane (Methyl Chloride)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF

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 Richard Wolfe
 Technical Director

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 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015312

Date Collected: 04/16/13 10:05
 Collected By: pgb

Sample Desc: PS-3 Baldwin Hardware Facility

Date Received: 04/16/13 11:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Test Time	Test Analyst
cis-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Xylenes (Total)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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Date of Report: 04/25/13
 Lab ID: 761-13-0015313
 Date Collected: 04/15/13 13:35
 Collected By: pgb

Sample Desc: PW-4 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORIMETRIC								
Cyanide, Total	<.004	mg/l	.004	1	10204001X	04/17	15:11	JCL
Phenols (4AAP)	0.016	mg/l	.01	1	EPA 420.4	04/17	12:07	JCL
ION CHROMAT								
Chloride	92	mg/l	5	5	EPA 300.0	04/15	21:52	JAE
Sulfate	62	mg/l	5	5	EPA 300.0	04/15	21:52	JAE
OTHER								
Total Organic Carbon	0.7	mg/l	.5	1	SM5310 C	04/16	22:10	ALD
FIELD								
PHYSICAL								
Conductivity-Field	904	umhos/cm	1	1	SM 2510B	04/15	13:35	PGB
pH-Field	7.6	su	1	1	SM4500H-B	04/15	13:35	PGB
Temperature - Field	15.3	c	.1	1	SM 2550B	04/15	13:35	PGB
INORGANIC								
DISSOLVED								
Barium, Dissolved	0.109	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Dissolved	0.0054	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Copper, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Dissolved	<.02	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Dissolved	0.0047	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA
Zinc, Dissolved	<.005	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
TOTAL								
Barium, Total	0.109	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Total	0.0052	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS

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Date of Report: 04/25/13
 Lab ID: 761-13-0015313

Date Collected: 04/15/13 13:35
 Collected By: pgb

Sample Desc: PW-4 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Time	Test Analyst
Copper, Total	0.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Total	<.02	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Total	0.0049	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA
Sodium, Total	39.2	mg/l	.5	1	EPA 200.7	04/16	10:56	LNA
Zinc, Total	<.005	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	3.7	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethane	1.0	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloropropane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,3-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,4-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
2-Chloroethylvinyl Ether	<10	ug/l	10	1	SW846 8260	04/18	09:51	GXF
Benzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromoform (Tribromomethane)	<2	ug/l	2	1	SW846 8260	04/18	09:51	GXF
Bromomethane (Methyl Bromide)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Carbon Tetrachloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorodibromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloroethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Chloroform	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloromethane (Methyl Chloride)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF

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 Richard Wolfe
 Technical Director

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 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015313

Date Collected: 04/15/13 13:35
 Collected By: pgb

Sample Desc: PW-4 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Test Time	Analyst
cis-1,2-Dichloroethylene	1.4	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Tetrachloroethylene	0.7	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichloroethylene	0.9	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Xylenes (Total)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015314
 Date Collected: 04/15/13 13:15
 Collected By: pgb

Sample Desc: PW-5 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORIMETRIC								
Cyanide, Total	<.004	mg/l	.004	1	10204001X	04/17	15:11	JCL
Phenols (4AAP)	<.01	mg/l	.01	1	EPA 420.4	04/17	12:07	JCL
ION CHROMAT								
Chloride	75	mg/l	5	5	EPA 300.0	04/15	23:28	JAE
Sulfate	45	mg/l	5	5	EPA 300.0	04/15	23:28	JAE
OTHER								
Total Organic Carbon	0.5	mg/l	.5	1	SM5310 C	04/16	22:10	ALD
FIELD								
PHYSICAL								
Conductivity-Field	824	umhos/cm	1	1	SM 2510B	04/15	13:15	PGB
pH-Field	7.5	su	1	1	SM4500H-B	04/15	13:15	PGB
Temperature - Field	13.7	c	.1	1	SM 2550B	04/15	13:15	PGB
INORGANIC								
DISSOLVED								
Barium, Dissolved	0.128	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Dissolved	0.0020	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Copper, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Dissolved	<.02	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Dissolved	0.0051	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA
Zinc, Dissolved	<.005	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
TOTAL								
Barium, Total	0.130	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Total	0.0020	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS

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 Lab ID: 761-13-0015314

Date Collected: 04/15/13 13:15
 Collected By: pgb

Sample Desc: PW-5 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Test Time	Test Analyst
Copper, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Total	<.02	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Total	0.0050	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA
Sodium, Total	31.5	mg/l	.5	1	EPA 200.7	04/16	10:56	LNA
Zinc, Total	<.005	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	1.4	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloropropane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,3-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,4-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
2-Chloroethylvinyl Ether	<10	ug/l	10	1	SW846 8260	04/18	09:51	GXF
Benzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromoform (Tribromomethane)	<2	ug/l	2	1	SW846 8260	04/18	09:51	GXF
Bromomethane (Methyl Bromide)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Carbon Tetrachloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorodibromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloroethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Chloroform	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloromethane (Methyl Chloride)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF

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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.



Attention: Robin Guynn
 Reported To: Environmental Resources Mgt. Inc.
 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015314
 Date Collected: 04/15/13 13:15
 Collected By: pgb

Sample Desc: PW-5 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
cis-1,2-Dichloroethylene	6.6	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Tetrachloroethylene	3.0	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichloroethylene	47.0	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Xlenes (Total)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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Attention: Robin Guynn
 Reported To: Environmental Resources Mgt. Inc.
 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015315

Date Collected: 04/15/13 11:35
 Collected By: pgb

Sample Desc: Duplicate @ Well OW-2 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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CHEMISTRY

COLORIMETRIC

Cyanide, Total	<.004	mg/l	.004	1	10204001X	04/17	15:11	JCL
Phenols (4AAP)	0.017	mg/l	.01	1	EPA 420.4	04/17	12:07	JCL

ION CHROMAT

Chloride	42	mg/l	5	5	EPA 300.0	04/15	23:59	JAE
Sulfate	72	mg/l	5	5	EPA 300.0	04/15	23:59	JAE

OTHER

Total Organic Carbon	0.6	mg/l	.5	1	SM5310 C	04/16	22:10	ALD
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FIELD

PHYSICAL

Conductivity-Field	711	umhos/cm	1	1	SM 2510B	04/15	11:35	PGB
pH-Field	7.6	su	1	1	SM4500H-B	04/15	11:35	PGB
Temperature - Field	15.4	c	.1	1	SM 2550B	04/15	11:35	PGB

INORGANIC

DISSOLVED

Barium, Dissolved	0.056	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Dissolved	0.0025	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Copper, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Dissolved	<.02	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Dissolved	0.0067	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA
Zinc, Dissolved	0.256	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS

TOTAL

Barium, Total	0.054	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Total	0.0044	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS

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Date of Report: 04/25/13
 Lab ID: 761-13-0015315
 Date Collected: 04/15/13 11:35
 Collected By: pgb

Sample Desc: Duplicate @ Well OW-2 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Time	Test Analyst
Copper, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Total	0.10	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Total	0.002	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Total	0.0065	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA
Sodium, Total	27.5	mg/l	.5	1	EPA 200.7	04/16	10:56	LNA
Zinc, Total	0.265	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloropropane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,3-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,4-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
2-Chloroethylvinyl Ether	<10	ug/l	10	1	SW846 8260	04/18	09:51	GXF
Benzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromoform (Tribromomethane)	<2	ug/l	2	1	SW846 8260	04/18	09:51	GXF
Bromomethane (Methyl Bromide)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Carbon Tetrachloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorodibromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloroethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Chloroform	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloromethane (Methyl Chloride)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF

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Attention: Robin Guynn
 Reported To: Environmental Resources Mgt. Inc.
 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015315

Date Collected: 04/15/13 11:35
 Collected By: pgb

Sample Desc: Duplicate @ Well OW-2 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
cis-1,2-Dichloroethylene	2.4	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichloroethylene	1.6	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Xlenes (Total)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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Attention: Robin Guynn
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 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015316

Date Collected: 04/15/13 09:20
 Collected By: pgb

Sample Desc: Day 1 Trip Blank Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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ORGANIC

VOLATILES

1,1,1-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloropropane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,3-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,4-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
2-Chloroethylvinyl Ether	<10	ug/l	10	1	SW846 8260	04/18	09:51	GXF
Benzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromoform (Tribromomethane)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromomethane (Methyl Bromide)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Carbon Tetrachloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorodibromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloroethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Chloroform	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloromethane (Methyl Chloride)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
cis-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015316

Date Collected: 04/15/13 09:20
 Collected By: pgb

Sample Desc: Day 1 Trip Blank Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Xylenes (Total)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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 Reported To: Environmental Resources Mgt. Inc.
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 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015317

Date Collected: 04/15/13 09:20
 Collected By: pgb

Sample Desc: Day 1 Field Blank @ 0W-3D Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloropropane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,3-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,4-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
2-Chloroethylvinyl Ether	<10	ug/l	10	1	SW846 8260	04/18	09:51	GXF
Benzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromoform (Tribromomethane)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromomethane (Methyl Bromide)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Carbon Tetrachloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorodibromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloroethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Chloroform	13.3	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloromethane (Methyl Chloride)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
cis-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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Technical Director

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 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015317
 Date Collected: 04/15/13 09:20
 Collected By: pgb

Sample Desc: Day 1 Field Blank @ OW-3D Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Xylenes (Total)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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Richard Wolfe
 Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Robin Guynn
 Reported To: Environmental Resources Mgt. Inc.
 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015318
 Date Collected: 04/15/13 11:50
 Collected By: pgb

Sample Desc: Rinsate Water Blank @ OW-2 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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CHEMISTRY

COLORMETRIC

Cyanide, Total	<.004	mg/l	.004	1	10204001X	04/17	15:11	JCL
Phenols (4AAP)	<.01	mg/l	.01	1	EPA 420.4	04/17	12:07	JCL

ION CHROMAT

Chloride	<1	mg/l	1	1	EPA 300.0	04/16	00:32	JAE
Sulfate	<1	mg/l	1	1	EPA 300.0	04/16	00:32	JAE

OTHER

Total Organic Carbon	<.5	mg/l	.5	1	SM5310 C	04/16	22:10	ALD
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FIELD

PHYSICAL

Conductivity-Field	1	umhos/cm	1	1	SM 2510B	04/15	11:50	PGB
pH-Field	9.0	su	1	1	SM4500H-B	04/15	11:50	PGB
Temperature - Field	13.9	c	.1	1	SM 2550B	04/15	11:50	PGB

INORGANIC

DISSOLVED

Barium, Dissolved	<.005	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA
Copper, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Dissolved	<.02	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Dissolved	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Dissolved	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA
Zinc, Dissolved	<.005	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS

TOTAL

Barium, Total	<.005	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
Cadmium, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Chromium, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA

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 Reported To: Environmental Resources Mgt. Inc.
 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015318

Date Collected: 04/15/13 11:50
 Collected By: pgb

Sample Desc: Rinsate Water Blank @ OW-2 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Time	Test Analyst
Copper, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Iron, Total	<.02	mg/l	.02	1	EPA 200.7	04/18	12:33	LNA
Lead, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Manganese, Total	<.001	mg/l	.001	1	EPA 200.8	04/18	22:33	RLS
Nickel, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/18	22:33	RLS
Silver, Total	<.0005	mg/l	.0005	1	EPA 200.8	04/23	14:32	LNA
Sodium, Total	<.5	mg/l	.5	1	EPA 200.7	04/16	10:56	LNA
Zinc, Total	<.005	mg/l	.005	1	EPA 200.8	04/18	22:33	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloropropane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,3-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,4-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
2-Chloroethylvinyl Ether	<10	ug/l	10	1	SW846 8260	04/18	09:51	GXF
Benzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromoform (Tribromomethane)	<2	ug/l	2	1	SW846 8260	04/18	09:51	GXF
Bromomethane (Methyl Bromide)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Carbon Tetrachloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorodibromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloroethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Chloroform	12.8	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloromethane (Methyl Chloride)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF

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Attention: Robin Guynn
 Reported To: Environmental Resources Mgt. Inc.
 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015318
 Date Collected: 04/15/13 11:50
 Collected By: pgb

Sample Desc: Rinsate Water Blank @ OW-2 Baldwin Hardware Facility

Date Received: 04/15/13 13:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
cis-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Xylenes (Total)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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Richard Wolfe
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Attention: Robin Guynn
 Reported To: Environmental Resources Mgt. Inc.
 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015515
 Date Collected: 04/16/13 08:30
 Collected By: pgb

Sample Desc: Day 2 Trip Blank Baldwin Hardware Facility

Date Received: 04/16/13 11:35

Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Test Time	Analyst
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ORGANIC

VOLATILES

1,1,1-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichlorobenzene (<i>o</i> -Dichlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloropropane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,3-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,4-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
2-Chloroethylvinyl Ether	<10	ug/l	10	1	SW846 8260	04/18	09:51	GXF
Benzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromoform (Tribromomethane)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromomethane (Methyl Bromide)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Carbon Tetrachloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorodibromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloroethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Chloroform	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloromethane (Methyl Chloride)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
cis-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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Richard Wolfe
 Technical Director





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M.J. Reider Associates, Inc.



Attention: Robin Guynn
Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 04/25/13
Lab ID: 761-13-0015515
Date Collected: 04/16/13 08:30
Collected By: pgb

Sample Desc: Day 2 Trip Blank Baldwin Hardware Facility

Date Received: 04/16/13 11:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Test Time	Test Analyst
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Xylenes (Total)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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Attention: Robin Guynn
 Reported To: Environmental Resources Mgt. Inc.
 200 Harry S. Truman Pkwy
 Suite 400
 Annapolis MD 21401

Date of Report: 04/25/13
 Lab ID: 761-13-0015516

Date Collected: 04/16/13 10:10
 Collected By: pgb

Sample Desc: Day 2 Field Blank @ PS-3 Baldwin Hardware Facility

Date Received: 04/16/13 11:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1,2-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,1-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,2-Dichloropropane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,3-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
1,4-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
2-Chloroethylvinyl Ether	<10	ug/l	10	1	SW846 8260	04/18	09:51	GXF
Benzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromoform (Tribromomethane)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Bromomethane (Methyl Bromide)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Carbon Tetrachloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chlorodibromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloroethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Chloroform	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Chloromethane (Methyl Chloride)	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
cis-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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 Technical Director

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M.J. Reider Associates, Inc.



Attention: Robin Guynn
Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 04/25/13
Lab ID: 761-13-0015516
Date Collected: 04/16/13 10:10
Collected By: pgb

Sample Desc: Day 2 Field Blank @ PS-3 Baldwin Hardware Facility

Date Received: 04/16/13 11:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Date	Test Time	Test Analyst
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichloroethylene	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	04/18	09:51	GXF
Xylenes (Total)	<.5	ug/l	.5	1	SW846 8260	04/18	09:51	GXF

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M.J. Reider Associates, Inc.



Attention: Dave Hancock
 Reported To: Baldwin Hardware Corporation
 841 E. Wyomissing Blvd.
 Reading PA 19611

Date of Report: 04/15/13
 Lab ID: 761-13-0014588

Date Collected: 04/10/13 08:20
 Collected By: bal

Sample Desc: Field Blank

Date Received: 04/10/13 14:00

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
--	--------	------	-----------	---------------	-----------	-----------	-----------	---------

ORGANIC

VOLATILES

1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	04/11	22:50	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	04/11	22:50	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	04/11	22:50	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	04/11	22:50	GXF
Chloroform	13	ug/L	5	1	EPA 624	04/11	22:50	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	04/11	22:50	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	04/11	22:50	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	04/11	22:50	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	04/11	22:50	GXF

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ACIL Seal of Excellence

CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.



Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 04/15/13
Lab ID: 761-13-0014589

Date Collected: 04/10/13 08:40
Collected By: bal

Sample Desc: Tower Influent

Date Received: 04/10/13 14:00

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
--	--------	------	-----------	---------------	-----------	-----------	-----------	---------

ORGANIC

VOLATILES

1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	04/11	09:52	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	04/11	09:52	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	04/11	09:52	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	04/11	09:52	GXF
Chloroform	<5	ug/L	5	1	EPA 624	04/11	09:52	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	04/11	09:52	GXF
cis-1,2-Dichloroethylene	6	ug/L	5	1	EPA 624	04/11	09:52	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	04/11	09:52	GXF
Trichloroethylene	36	ug/L	5	1	EPA 624	04/11	09:52	GXF

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Attention: Dave Hancock
 Reported To: Baldwin Hardware Corporation
 841 E. Wyomissing Blvd.
 Reading PA 19611

Date of Report: 04/15/13
 Lab ID: 761-13-0014590

Date Collected: 04/10/13 08:25
 Collected By: bal

Sample Desc: Tower Effluent

Date Received: 04/10/13 14:00

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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ORGANIC

VOLATILES

1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF
Chloroform	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	04/11	22:50	GXF
cis-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF

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Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 04/15/13
Lab ID: 761-13-0014591

Date Collected: 04/10/13 08:35
Collected By: bal

Sample Desc: PS-2

Date Received: 04/10/13 14:00

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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ORGANIC

VOLATILES

1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF
Chloroform	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	04/11	22:50	GXF
cis-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	04/11	22:50	GXF

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Attention: Dave Hancock
 Reported To: Baldwin Hardware Corporation
 841 E. Wyomissing Blvd.
 Reading PA 19611

Date of Report: 04/15/13
 Lab ID: 761-13-0014592

Sample Desc: PW-4

Date Collected: 04/10/13 08:50
 Collected By: bal

Date Received: 04/10/13 14:00

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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ORGANIC

VOLATILES

1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	04/11	09:52	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	04/11	09:52	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	04/11	09:52	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	04/11	09:52	GXF
Chloroform	<5	ug/l	5	1	EPA 624	04/11	09:52	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	04/11	09:52	GXF
cis-1,2-Dichloroethylene	7	ug/l	5	1	EPA 624	04/11	09:52	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	04/11	09:52	GXF
Trichloroethylene	46	ug/l	5	1	EPA 624	04/11	09:52	GXF

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Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
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Reading PA 19611

Date of Report: 04/15/13
Lab ID: 761-13-0014593

Date Collected: 04/10/13 08:58
Collected By: bal

Sample Desc: PW-5

Date Received: 04/10/13 14:00

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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ORGANIC

VOLATILES

1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	04/11	09:52	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	04/11	09:52	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	04/11	09:52	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	04/11	09:52	GXF
Chloroform	<5	ug/l	5	1	EPA 624	04/11	09:52	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	04/11	09:52	GXF
cis-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	04/11	09:52	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	04/11	09:52	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	04/11	09:52	GXF

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Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 05/29/13
Lab ID: 761-13-0019883

Date Collected: 05/15/13 09:35
Collected By: pgb

Sample Desc: Field Blank

Date Received: 05/15/13 14:55

Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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ORGANIC

VOLATILES

1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Chloroform	13	ug/l	5	1	EPA 624	05/15	22:49	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	05/15	22:49	GXF
cis-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF

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Attention: Dave Hancock
 Reported To: Baldwin Hardware Corporation
 841 E. Wyomissing Blvd.
 Reading PA 19611

Date of Report: 05/29/13
 Lab ID: 761-13-0019884

Date Collected: 05/15/13 09:40
 Collected By: pgb

Sample Desc: Tower Influent

Date Received: 05/15/13 14:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Chloroform	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	05/15	22:49	GXF
cis-1,2-Dichloroethylene	9	ug/l	5	1	EPA 624	05/15	22:49	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Trichloroethylene	58	ug/l	5	5	EPA 624	05/23	09:54	GXF

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Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 05/29/13
Lab ID: 761-13-0019885

Date Collected: 05/15/13 09:50
Collected By: pgb

Sample Desc: Tower Effluent

Date Received: 05/15/13 14:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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ORGANIC

VOLATILES

1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Chloroform	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	05/15	22:49	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF

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Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 05/29/13
Lab ID: 761-13-0019886

Date Collected: 05/15/13 09:45
Collected By: pgb

Sample Desc: PS-2

Date Received: 05/15/13 14:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC VOLATILES								
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Chloroform	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	05/15	22:49	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF

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Attention: Dave Hancock
 Reported To: Baldwin Hardware Corporation
 841 E. Wyomissing Blvd.
 Reading PA 19611

Date of Report: 05/29/13
 Lab ID: 761-13-0019887

Date Collected: 05/15/13 10:00
 Collected By: pgb

Sample Desc: PW-4

Date Received: 05/15/13 14:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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ORGANIC

VOLATILES

1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Chloroform	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	05/15	22:49	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	05/15	22:49	GXF

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841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 05/29/13
Lab ID: 761-13-0019888

Date Collected: 05/15/13 09:55
Collected By: pgb

Sample Desc: PW-5

Date Received: 05/15/13 14:55

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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ORGANIC

VOLATILES

1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Chloroform	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	05/15	22:49	GXF
cis-1,2-Dichloroethylene	8	ug/l	5	1	EPA 624	05/15	22:49	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	05/15	22:49	GXF
Trichloroethylene	62	ug/l	5	5	EPA 624	05/23	09:54	GXF

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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.



Attention: Dave Hancock
 Reported To: Baldwin Hardware Corporation
 841 E. Wyomissing Blvd.
 Reading PA 19611

Date of Report: 06/17/13
 Lab ID: 761-13-0023766

Date Collected: 06/11/13 09:35
 Collected By: PGB

Sample Desc: Field Blank

Date Received: 06/11/13 15:00

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
--------	------	------------	---------------	-----------	-----------	-----------	---------

ORGANIC

VOLATILES

1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chloroform	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	06/12	09:14	GXF
cis-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF

Distribution of Reports:

email: K. Hinckley - Stanley Black and Decker
 email: K. Bitjeman - Loureiro Engineering Associates Inc

Reviewed and Approved by:

Richard Wolfe
 Technical Director

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Attention: Dave Hancock
 Reported To: Baldwin Hardware Corporation
 841 E. Wyomissing Blvd.
 Reading PA 19611

Date of Report: 06/17/13
 Lab ID: 761-13-0023767

Date Collected: 06/11/13 09:45
 Collected By: PGB

Sample Desc: Tower Influent

Date Received: 06/11/13 15:00

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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ORGANIC VOLATILES

1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chloroform	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	06/12	09:14	GXF
cis-1,2-Dichloroethylene	6	ug/l	5	1	EPA 624	06/12	09:14	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Trichloroethylene	32	ug/l	5	1	EPA 624	06/12	09:14	GXF

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 Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 06/17/13
Lab ID: 761-13-0023768

Date Collected: 06/11/13 09:40
Collected By: PGB

Sample Desc: Tower Effluent

Date Received: 06/11/13 15:00

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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ORGANIC

VOLATILES

1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chloroform	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	06/12	09:14	GXF
cis-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF

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Technical Director

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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.



Attention: Dave Hancock
 Reported To: Baldwin Hardware Corporation
 841 E. Wyomissing Blvd.
 Reading PA 19611

Date of Report: 06/17/13
 Lab ID: 761-13-0023769

Date Collected: 06/11/13 09:50
 Collected By: PGB

Sample Desc: PS-2

Date Received: 06/11/13 15:00

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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ORGANIC

VOLATILES

1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chloroform	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	06/12	09:14	GXF
cis-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF

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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.



Attention: Dave Hancock
 Reported To: Baldwin Hardware Corporation
 841 E. Wyomissing Blvd.
 Reading PA 19611

Date of Report: 06/17/13
 Lab ID: 761-13-0023770

Sample Desc: PW-4

Date Collected: 06/11/13 10:05
 Collected By: PGB

Date Received: 06/11/13 15:00

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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ORGANIC

VOLATILES

1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chloroform	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	06/12	09:14	GXF
cis-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Dave Hancock
 Reported To: Baldwin Hardware Corporation
 841 E. Wyomissing Blvd.
 Reading PA 19611

Date of Report: 06/17/13
 Lab ID: 761-13-0023771

Date Collected: 06/11/13 10:00
 Collected By: PGB

Sample Desc: PW-5

Date Received: 06/11/13 15:00

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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ORGANIC VOLATILES

1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chloroform	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	06/12	09:14	GXF
cis-1,2-Dichloroethylene	6	ug/l	5	1	EPA 624	06/12	09:14	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	06/12	09:14	GXF
Trichloroethylene	35	ug/l	5	1	EPA 624	06/12	09:14	GXF

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 email: K. Bitjeman - Loureiro Engineering Associates Inc

Reviewed and Approved by:

Richard Wolfe
 Technical Director

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Appendix B
*Pennsylvania Department of Environmental
Resources Water Quality Reporting Forms*



Date Prepared/Revised 4/25/2013
DEP USE ONLY
Date Received

FORM 19
MUNICIPAL WASTE LANDFILLS
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 14R, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Section 273.284

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258

SECTION A. SITE IDENTIFIER

Applicant/permittee Baldwin Hardware Corporation

Site Name Baldwin Hardware Facility, Reading, PA

Facility ID (as issued by DEP) PAD 002350833

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")**.

Monitoring Point Number: OW-1

 Well Spring Stream Other

 Upgradient Downgradient

Location: County Berks

Municipality: Reading

Sampling Point: Latitude: 40° 19 ' 27.4 "

Longitude: 75° 56 ' 27.5 "

Depth to Water Level: 56.04 ft.

Measured From: Land Surface TOC

Casing Stickup: 3.54 ft.

Elevation of Water Level: 236.56 ft./MSL

Sampling Depth: 56.12 ft.

Volume of Water Column: 14.92 gal.

Total Well Depth: 79.00 ft.

Sample Method: Pumped Bailed GrabWell Purged Yes No

Well Volumes Purged: 3

Sample Filtered (must be 0.45 micron)? Yes No

Spring Flow Rate: _____ GPM

Sample Date: (mm/dd/yy) 4/15/2013

Sample Collection Time: 1030

Sample Collector's Name: 12.4

Sample Collector's Affiliation: MJ Reider

Laboratory Performing Analysis MJ Reider 107 Angelica St. Reading, PA 19611

Were any holding times exceeded? Yes No If yes, please explain in comments field.

Lab Certification Number 06-003

Lab Sample Number: 0761-13-0015306 Final Lab Analysis Completion Date: 4/25/13

Name/Affiliation of Person who Filled out Form James C. Best Jr. - MJ Reider Assoc., Inc

Comments:

I.D. No.	PAD 002350833
Monitoring Point No.	OW-1
Sample Date	4/15/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

1-Q Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen*		
Bicarbonate (as CaCO ₃)*		
Calcium, Total*		
Calcium, Dissolved**		
Chemical Oxygen Demand*		
Chloride*	4.00	EPA 300.0
Fluoride		
Iron (µg/l), Total	70	epa 200.7
Iron (µg/l), Dissolved**	<20	epa 200.7
Magnesium, Total*		
Magnesium, Dissolved**		
Manganese (µg/l), Total	<1	epa 200.8
Manganese (µg/l), Dissolved**	<1	epa 200.8
Nitrate-Nitrogen		
pH (standard units), Field*	7.5	SM4500H-B
pH (standard units), Laboratory*		
Potassium, Total*		
Potassium, Dissolved**		
Sodium, Total*	1.2	epa 200.7
Sodium, Dissolved**		
Specific Conductance (µmhos/cm), Field*	467	SM 2510B
Specific Conductance (µmhos/cm), Laboratory*		
Sulfate*	21	EPA 300.0
Total Alkalinity*		
Total Dissolved Solids		
Total Organic Carbon*	0.6	SM5310 C
Total Phenolics (µg/l)	<10	EPA 420.4
Turbidity (NTU)		
Cyanide	<.004	10204001X
Temperature Before Sampling, °C	12.4	SM 2550B

* Indicator Analyte - For comparison with detection zone analytes.

† Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metal analysis.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-1
Sample Date	4/15/2013

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

2-Q Organics (Enter all data in µg/l)

ANALYTE	VALUE†	ANALYSIS METHOD NUMBER
Benzene	<.5	sw846 8260
1, 2-Dibromoethane		
1, 1-Dichloroethane	<.5	sw846 8260
1, 1-Dichloroethene	<.5	sw846 8260
1, 2-Dichloroethane	<.5	sw846 8260
Cis 1, 2-Dichloroethene	<.5	sw846 8260
Trans-1,2-Dichloroethene	<.5	sw846 8260
Ethyl Benzene	<.5	sw846 8260
Methylene chloride	<.5	sw846 8260
Tetrachloroethene	<.5	sw846 8260
Toluene	<.5	sw846 8260
1, 1, 1-Trichloroethane	<.5	sw846 8260
Trichloroethene	<.5	sw846 8260
Vinyl chloride	<1	sw846 8260
Xylene	<.5	sw846 8260
2-Chloroethylvinyl Ether	<10	sw846 8260

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-1
Sample Date	4/15/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

1-A Metals (Enter all data in ug/l) If initial background analyses or four consecutive annual analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Arsenic, Total		
Arsenic, Dissolved		
Barium, Total	50	epa 200.8
Barium, Dissolved	51	epa 200.8
Cadmium, Total	<0.5	epa 200.8
Cadmium, Dissolved	<0.5	epa 200.8
Chromium, Total	2	epa 200.8
Chromium, Dissolved	1.7	epa 200.8
Copper, Total	<1	epa 200.8
Copper, Dissolved	<1	epa 200.8
Lead, Total	<1	epa 200.8
Lead, Dissolved	<1	EPA 200.8
Mercury, Total		
Mercury, Dissolved		
Selenium, Total		
Selenium, Dissolved		
Silver, Total	<0.5	EPA 200.8
Silver, Dissolved	<0.5	epa 200.8
Zinc, Total	6	epa 200.8
Zinc, Dissolved	7	epa 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-1
Sample Date	4/15/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

2-A Organics (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Bromoform (Tribromomethane)	<2	sw846 8260
Bromomethane (Methyl Bromide)	<1	sw846 8260
Carbon Tetrachloride	<.5	sw846 8260
Chlorobenzene	<.5	sw846 8260
Chloroethane (Ethyl Chloride)	<1	sw846 8260
Dibromochloromethane (Chlorodibromomethane)	<.5	sw846 8260
Methyl Chloride (Chloromethane)	<1	sw846 8260
3-Chloro-1-propene		
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	sw846 8260
1,3-Dichlorobenzene (m-Dichlorobenzene)	<.5	sw846 8260
1,4-Dichlorobenzene (p-Dichlorobenzene)	<.5	sw846 8260
Dichlorodifluoromethane	<1	sw846 8260
1,2-Dichloropropane (Propylene Dichloride)	<.5	sw846 8260
Cis-1,3-Dichloropropene	<.5	sw846 8260
Trans-1,3-Dichloropropene	<.5	sw846 8260
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	<.5	sw846 8260
1,1,2-Trichloroethane	<.5	sw846 8260
Trichlorofluoromethane (CFC-11)	<1	sw846 8260
1,2,3-Trichloropropane		

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-1
Sample Date	4/15/2013

FORM 19**ANNUAL WATER QUALITY ANALYSES**

Subtitle D Detection Zone Add-On List: When the MCL of any analyte is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the ground water monitoring wells.

ORGANICS AND METALS (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromomethane)		
Bromodichloromethane (Dichlorobromomethane)	<.5	sw846 8260
Carbon Disulfide		
Chloroform (Trichloromethane)	<.5	sw846 8260
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene Bromide (Dibromomethane)		
Methyl Iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total		
Beryllium, Total		
Cobalt, Total		
Nickel, Total	3	EPA 200.8
Thallium, Total		
Vanadium, Total		
Nickel, Dissolved	3	EPA 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-1
Sample Date	4/15/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

4 Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

<u>Constituent</u>	<u>CAS Number</u>



Date Prepared/Revised 4/25/2013
DEP USE ONLY
Date Received

FORM 19
MUNICIPAL WASTE LANDFILLS
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 14R, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Section 273.284

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258

SECTION A. SITE IDENTIFIER

Applicant/permittee Baldwin Hardware Corporation

Site Name Baldwin Hardware Facility, Reading, PA

Facility ID (as issued by DEP) PAD 002350833

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")**.

Monitoring Point Number: OW-2

 Well Spring Stream Other

 Upgradient Downgradient

Location: County Berks

Municipality: Reading

Sampling Point: Latitude: 40° 19 ' 22.4 "

Longitude: 75° 56 ' 26.1 "

Depth to Water Level: 56.40 ft.

Measured From: Land Surface TOC

Casing Stickup: 3.50 ft.

Elevation of Water Level: 195.52 ft./MSL

Sampling Depth: 60.52 ft.

Volume of Water Column: 28.34 gal.

Total Well Depth: 100.00 ft.

Sample Method: Pumped Bailed GrabWell Purged Yes No

Well Volumes Purged: 3

Sample Filtered (must be 0.45 micron)? Yes No

Spring Flow Rate: _____ GPM

Sample Date: (mm/dd/yy) 4/15/2013 Sample Collection Time: 1135

Sample Collector's Name: 15.4

Sample Collector's Affiliation: MJ Reider

Laboratory Performing Analysis MJ Reider 107 Angelica St. Reading, PA 19611

Were any holding times exceeded? Yes No If yes, please explain in comments field.

Lab Certification Number 06-003

Lab Sample Number: 0761-13-0015307 Final Lab Analysis Completion Date: 4/25/13

Name/Affiliation of Person who Filled out Form James C. Best Jr. - MJ Reider Assoc., Inc

Comments: _____

I.D. No.	PAD 002350833
Monitoring Point No.	OW-2
Sample Date	4/15/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

1-Q Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen*		
Bicarbonate (as CaCO ₃)*		
Calcium, Total*		
Calcium, Dissolved**		
Chemical Oxygen Demand*		
Chloride*	41.00	EPA 300.0
Fluoride		
Iron (µg/l), Total	100	epa 200.7
Iron (µg/l), Dissolved**	<20	epa 200.7
Magnesium, Total*		
Magnesium, Dissolved**		
Manganese (µg/l), Total	1	epa 200.8
Manganese (µg/l), Dissolved**	<1	epa 200.8
Nitrate-Nitrogen		
pH (standard units), Field*	7.6	sm4500h-b
pH (standard units), Laboratory*		
Potassium, Total*		
Potassium, Dissolved**		
Sodium, Total*	27.2	epa 200.7
Sodium, Dissolved**		
Specific Conductance (µmhos/cm), Field*	711	sm 2510b
Specific Conductance (µmhos/cm), Laboratory*		
Sulfate*	70	EPA 300.0
Total Alkalinity*		
Total Dissolved Solids		
Total Organic Carbon*	0.7	SM5310 C
Total Phenolics (µg/l)	<10	EPA 420.4
Turbidity (NTU)		
Cyanide	<.004	10204001X
Temperature Before Sampling, °C	15.4	SM 2550B

* Indicator Analyte - For comparison with detection zone analytes.

† Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metal analysis.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-2
Sample Date	4/15/2013

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

2-Q Organics (Enter all data in µg/l)

ANALYTE	VALUE†	ANALYSIS METHOD NUMBER
Benzene	<.5	sw846 8260
1, 2-Dibromoethane		
1, 1-Dichloroethane	<.5	sw846 8260
1, 1-Dichloroethene	<.5	sw846 8260
1, 2-Dichloroethane	<.5	sw846 8260
Cis 1, 2-Dichloroethene	2.4	sw846 8260
Trans-1,2-Dichloroethene	<.5	sw846 8260
Ethyl Benzene	<.5	sw846 8260
Methylene chloride	<.5	sw846 8260
Tetrachloroethene	<.5	sw846 8260
Toluene	<.5	sw846 8260
1, 1, 1-Trichloroethane	<.5	sw846 8260
Trichloroethene	1.6	sw846 8260
Vinyl chloride	<1	sw846 8260
Xylene	<.5	sw846 8260
2-Chloroethylvinyl Ether	<10	sw846 8260

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-2
Sample Date	4/15/2013

FORM 19**ANNUAL WATER QUALITY ANALYSES**

1-A Metals (Enter all data in ug/l) If initial background analyses or four consecutive annual analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Arsenic, Total		
Arsenic, Dissolved		
Barium, Total	55	epa 200.8
Barium, Dissolved	54	epa 200.8
Cadmium, Total	<0.5	epa 200.8
Cadmium, Dissolved	<0.5	epa 200.8
Chromium, Total	3.7	epa 200.8
Chromium, Dissolved	2.2	epa 200.8
Copper, Total	<1	epa 200.8
Copper, Dissolved	<1	epa 200.8
Lead, Total	2	epa 200.8
Lead, Dissolved	<1	EPA 200.8
Mercury, Total		
Mercury, Dissolved		
Selenium, Total		
Selenium, Dissolved		
Silver, Total	<0.5	EPA 200.8
Silver, Dissolved	<0.5	epa 200.8
Zinc, Total	270	epa 200.8
Zinc, Dissolved	258	epa 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-2
Sample Date	4/15/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

2-A Organics (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Bromoform (Tribromomethane)	<2	sw846 8260
Bromomethane (Methyl Bromide)	<1	sw846 8260
Carbon Tetrachloride	<.5	sw846 8260
Chlorobenzene	<.5	sw846 8260
Chloroethane (Ethyl Chloride)	<1	sw846 8260
Dibromochloromethane (Chlorodibromomethane)	<.5	sw846 8260
Methyl Chloride (Chloromethane)	<1	sw846 8260
3-Chloro-1-propene		
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	sw846 8260
1,3-Dichlorobenzene (m-Dichlorobenzene)	<.5	sw846 8260
1,4-Dichlorobenzene (p-Dichlorobenzene)	<.5	sw846 8260
Dichlorodifluoromethane	<1	sw846 8260
1,2-Dichloropropane (Propylene Dichloride)	<.5	sw846 8260
Cis-1,3-Dichloropropene	<.5	sw846 8260
Trans-1,3-Dichloropropene	<.5	sw846 8260
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	<.5	sw846 8260
1,1,2-Trichloroethane	<.5	sw846 8260
Trichlorofluoromethane (CFC-11)	<1	sw846 8260
1,2,3-Trichloropropane		

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-2
Sample Date	4/15/2013

FORM 19**ANNUAL WATER QUALITY ANALYSES**

Subtitle D Detection Zone Add-On List: When the MCL of any analyte is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the ground water monitoring wells.

ORGANICS AND METALS (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromomethane)		
Bromodichloromethane (Dichlorobromomethane)	<.5	sw846 8260
Carbon Disulfide		
Chloroform (Trichloromethane)	<.5	sw846 8260
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene Bromide (Dibromomethane)		
Methyl Iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total		
Beryllium, Total		
Cobalt, Total		
Nickel, Total	5.9	EPA 200.8
Thallium, Total		
Vanadium, Total		
Nickel, Dissolved	5.8	EPA 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-2
Sample Date	4/15/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

4 Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

<u>Constituent</u>	<u>CAS Number</u>



Date Prepared/Revised 4/25/2013
DEP USE ONLY
Date Received

FORM 19
MUNICIPAL WASTE LANDFILLS
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 14R, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Section 273.284

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258

SECTION A. SITE IDENTIFIER

Applicant/permittee Baldwin Hardware Corporation

Site Name Baldwin Hardware Facility, Reading, PA

Facility ID (as issued by DEP) PAD 002350833

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")**.

Monitoring Point Number: OW-3D

 Well Spring Stream Other

 Upgradient Downgradient

Location: County Berks

Municipality: Reading

Sampling Point: Latitude: 40° 19 ' 22.2 "

Longitude: 75° 56 ' 40.7 "

Depth to Water Level: 44.20 ft.

Measured From: Land Surface TOC

Casing Stickup: 3.50 ft.

Elevation of Water Level: 225.17 ft./MSL

Sampling Depth: 71.09 ft.

Volume of Water Column: 19.54 gal.

Total Well Depth: 200.50 ft.

Sample Method: Pumped Bailed GrabWell Purged Yes No

Well Volumes Purged: 3

Sample Filtered (must be 0.45 micron)? Yes No

Spring Flow Rate: _____ GPM

Sample Date: (mm/dd/yy) 4/15/2013 Sample Collection Time: 0940

Sample Collector's Name: 13.3

Sample Collector's Affiliation: MJ Reider

Laboratory Performing Analysis MJ Reider 107 Angelica St. Reading, PA 19611

Were any holding times exceeded? Yes No If yes, please explain in comments field.

Lab Certification Number 06-003

Lab Sample Number: 0761-13-0015309 Final Lab Analysis Completion Date: 4/25/13

Name/Affiliation of Person who Filled out Form James C. Best Jr. - MJ Reider Assoc., Inc

Comments: _____

I.D. No.	PAD 002350833
Monitoring Point No.	OW-3D
Sample Date	4/15/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

1-Q Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen*		
Bicarbonate (as CaCO ₃)*		
Calcium, Total*		
Calcium, Dissolved**		
Chemical Oxygen Demand*		
Chloride*	8.00	EPA 300.0
Fluoride		
Iron (µg/l), Total	170	epa 200.7
Iron (µg/l), Dissolved**	150	epa 200.7
Magnesium, Total*		
Magnesium, Dissolved**		
Manganese (µg/l), Total	5	epa 200.8
Manganese (µg/l), Dissolved**	5	epa 200.8
Nitrate-Nitrogen		
pH (standard units), Field*	7.3	sm4500h-b
pH (standard units), Laboratory*		
Potassium, Total*		
Potassium, Dissolved**		
Sodium, Total*	1.5	epa 200.7
Sodium, Dissolved**		
Specific Conductance (µmhos/cm), Field*	504	sm 2510b
Specific Conductance (µmhos/cm), Laboratory*		
Sulfate*	31	EPA 300.0
Total Alkalinity*		
Total Dissolved Solids		
Total Organic Carbon*	0.6	SM5310 C
Total Phenolics (µg/l)	10	EPA 420.4
Turbidity (NTU)		
Cyanide	<.004	10204001X
Temperature Before Sampling, °C	13.3	SM 2550B

* Indicator Analyte - For comparison with detection zone analytes.

† Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metal analysis.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-3D
Sample Date	4/15/2013

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

2-Q Organics (Enter all data in µg/l)

ANALYTE	VALUE†	ANALYSIS METHOD NUMBER
Benzene	38.7	sw846 8260
1, 2-Dibromoethane		
1, 1-Dichloroethane	<.5	sw846 8260
1, 1-Dichloroethene	<.5	sw846 8260
1, 2-Dichloroethane	1.6	sw846 8260
Cis 1, 2-Dichloroethene	<.5	sw846 8260
Trans-1,2-Dichloroethene	<.5	sw846 8260
Ethyl Benzene	<.5	sw846 8260
Methylene chloride	<.5	sw846 8260
Tetrachloroethene	<.5	sw846 8260
Toluene	<.5	sw846 8260
1, 1, 1-Trichloroethane	<.5	sw846 8260
Trichloroethene	<.5	sw846 8260
Vinyl chloride	<1	sw846 8260
Xylene	<.5	sw846 8260
2-Chloroethylvinyl Ether	<10	sw846 8260

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-3D
Sample Date	4/15/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

1-A Metals (Enter all data in ug/l) If initial background analyses or four consecutive annual analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Arsenic, Total		
Arsenic, Dissolved		
Barium, Total	131	epa 200.8
Barium, Dissolved	137	epa 200.8
Cadmium, Total	<0.5	epa 200.8
Cadmium, Dissolved	<0.5	epa 200.8
Chromium, Total	4.7	epa 200.8
Chromium, Dissolved	1.4	epa 200.8
Copper, Total	<1	epa 200.8
Copper, Dissolved	<1	epa 200.8
Lead, Total	<1	epa 200.8
Lead, Dissolved	<1	EPA 200.8
Mercury, Total		
Mercury, Dissolved		
Selenium, Total		
Selenium, Dissolved		
Silver, Total	<0.5	EPA 200.8
Silver, Dissolved	<0.5	epa 200.8
Zinc, Total	<5	epa 200.8
Zinc, Dissolved	<5	epa 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-3D
Sample Date	4/15/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

2-A Organics (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Bromoform (Tribromomethane)	<2	sw846 8260
Bromomethane (Methyl Bromide)	<1	sw846 8260
Carbon Tetrachloride	<.5	sw846 8260
Chlorobenzene	<.5	sw846 8260
Chloroethane (Ethyl Chloride)	<1	sw846 8260
Dibromochloromethane (Chlorodibromomethane)	<.5	sw846 8260
Methyl Chloride (Chloromethane)	<1	sw846 8260
3-Chloro-1-propene		
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	sw846 8260
1,3-Dichlorobenzene (m-Dichlorobenzene)	<.5	sw846 8260
1,4-Dichlorobenzene (p-Dichlorobenzene)	<.5	sw846 8260
Dichlorodifluoromethane	<1	sw846 8260
1,2-Dichloropropane (Propylene Dichloride)	<.5	sw846 8260
Cis-1,3-Dichloropropene	<.5	sw846 8260
Trans-1,3-Dichloropropene	<.5	sw846 8260
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	<.5	sw846 8260
1,1,2-Trichloroethane	<.5	sw846 8260
Trichlorofluoromethane (CFC-11)	<1	sw846 8260
1,2,3-Trichloropropane		

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-3D
Sample Date	4/15/2013

FORM 19**ANNUAL WATER QUALITY ANALYSES**

Subtitle D Detection Zone Add-On List: When the MCL of any analyte is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the ground water monitoring wells.

ORGANICS AND METALS (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromomethane)		
Bromodichloromethane (Dichlorobromomethane)	<.5	sw846 8260
Carbon Disulfide		
Chloroform (Trichloromethane)	<.5	sw846 8260
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene Bromide (Dibromomethane)		
Methyl Iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total		
Beryllium, Total		
Cobalt, Total		
Nickel, Total	3.5	EPA 200.8
Thallium, Total		
Vanadium, Total		
Nickel, Dissolved	2.9	EPA 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-3D
Sample Date	4/15/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

4 Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

<u>Constituent</u>	<u>CAS Number</u>



Date Prepared/Revised 4/25/2013
DEP USE ONLY
Date Received

FORM 19
MUNICIPAL WASTE LANDFILLS
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 14R, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Section 273.284

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258

SECTION A. SITE IDENTIFIER

Applicant/permittee Baldwin Hardware Corporation

Site Name Baldwin Hardware Facility, Reading, PA

Facility ID (as issued by DEP) PAD 002350833

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")**.

Monitoring Point Number: OW-3S

 Well Spring Stream Other

 Upgradient Downgradient

Location: County Berks

Municipality: Reading

Sampling Point: Latitude: 40° 19 ' 21.9 "

Longitude: 75° 56 ' 70.8 "

Depth to Water Level: 46.53 ft.

Measured From: Land Surface TOC

Casing Stickup: 3.42 ft.

Elevation of Water Level: 222.84 ft./MSL

Sampling Depth: 46.97 ft.

Volume of Water Column: 5.31 gal.

Total Well Depth: 89.00 ft.

Sample Method: Pumped Bailed GrabWell Purged Yes No

Well Volumes Purged: 3

Sample Filtered (must be 0.45 micron)? Yes No

Spring Flow Rate: _____ GPM

Sample Date: (mm/dd/yy) 4/15/2013 Sample Collection Time: 0915

Sample Collector's Name: 14.1

Sample Collector's Affiliation: MJ Reider

Laboratory Performing Analysis MJ Reider 107 Angelica St. Reading, PA 19611

Were any holding times exceeded? Yes No If yes, please explain in comments field.

Lab Certification Number 06-003

Lab Sample Number: 0761-13-0015308 Final Lab Analysis Completion Date: 4/25/13

Name/Affiliation of Person who Filled out Form James C. Best Jr. - MJ Reider Assoc., Inc

Comments: _____

I.D. No.	PAD 002350833
Monitoring Point No.	OW-3S
Sample Date	4/15/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

1-Q Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen*		
Bicarbonate (as CaCO ₃)*		
Calcium, Total*		
Calcium, Dissolved**		
Chemical Oxygen Demand*		
Chloride*	100.00	EPA 300.0
Fluoride		
Iron (µg/l), Total	1900	epa 200.7
Iron (µg/l), Dissolved**	<20	epa 200.7
Magnesium, Total*		
Magnesium, Dissolved**		
Manganese (µg/l), Total	43	epa 200.8
Manganese (µg/l), Dissolved**	2	epa 200.8
Nitrate-Nitrogen		
pH (standard units), Field*	6.8	sm4500h-b
pH (standard units), Laboratory*		
Potassium, Total*		
Potassium, Dissolved**		
Sodium, Total*	37.8	epa 200.7
Sodium, Dissolved**		
Specific Conductance (µmhos/cm), Field*	910	sm 2510b
Specific Conductance (µmhos/cm), Laboratory*		
Sulfate*	40	EPA 300.0
Total Alkalinity*		
Total Dissolved Solids		
Total Organic Carbon*	0.7	SM5310 C
Total Phenolics (µg/l)	<10	EPA 420.4
Turbidity (NTU)		
Cyanide	<.004	10204001X
Temperature Before Sampling, °C	14.1	SM 2550B

* Indicator Analyte - For comparison with detection zone analytes.

† Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metal analysis.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-3S
Sample Date	4/15/2013

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

2-Q Organics (Enter all data in µg/l)

ANALYTE	VALUE†	ANALYSIS METHOD NUMBER
Benzene	<.5	sw846 8260
1, 2-Dibromoethane		
1, 1-Dichloroethane	<.5	sw846 8260
1, 1-Dichloroethene	<.5	sw846 8260
1, 2-Dichloroethane	<.5	sw846 8260
Cis 1, 2-Dichloroethene	<.5	sw846 8260
Trans-1,2-Dichloroethene	<.5	sw846 8260
Ethyl Benzene	<.5	sw846 8260
Methylene chloride	<.5	sw846 8260
Tetrachloroethene	<.5	sw846 8260
Toluene	<.5	sw846 8260
1, 1, 1-Trichloroethane	<.5	sw846 8260
Trichloroethene	<.5	sw846 8260
Vinyl chloride	<1	sw846 8260
Xylene	<.5	sw846 8260
2-Chloroethylvinyl Ether	<10	sw846 8260

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-3S
Sample Date	4/15/2013

FORM 19**ANNUAL WATER QUALITY ANALYSES**

1-A Metals (Enter all data in ug/l) If initial background analyses or four consecutive annual analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Arsenic, Total		
Arsenic, Dissolved		
Barium, Total	175	epa 200.8
Barium, Dissolved	159	epa 200.8
Cadmium, Total	<0.5	epa 200.8
Cadmium, Dissolved	<0.5	epa 200.8
Chromium, Total	329	epa 200.8
Chromium, Dissolved	1.8	epa 200.8
Copper, Total	5	epa 200.8
Copper, Dissolved	<1	epa 200.8
Lead, Total	<1	epa 200.8
Lead, Dissolved	<1	EPA 200.8
Mercury, Total		
Mercury, Dissolved		
Selenium, Total		
Selenium, Dissolved		
Silver, Total	<0.5	EPA 200.8
Silver, Dissolved	<0.5	epa 200.8
Zinc, Total	<5	epa 200.8
Zinc, Dissolved	<5	epa 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-3S
Sample Date	4/15/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

2-A Organics (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Bromoform (Tribromomethane)	<2	sw846 8260
Bromomethane (Methyl Bromide)	<1	sw846 8260
Carbon Tetrachloride	<.5	sw846 8260
Chlorobenzene	<.5	sw846 8260
Chloroethane (Ethyl Chloride)	<1	sw846 8260
Dibromochloromethane (Chlorodibromomethane)	<.5	sw846 8260
Methyl Chloride (Chloromethane)	<1	sw846 8260
3-Chloro-1-propene		
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	sw846 8260
1,3-Dichlorobenzene (m-Dichlorobenzene)	<.5	sw846 8260
1,4-Dichlorobenzene (p-Dichlorobenzene)	<.5	sw846 8260
Dichlorodifluoromethane	<1	sw846 8260
1,2-Dichloropropane (Propylene Dichloride)	<.5	sw846 8260
Cis-1,3-Dichloropropene	<.5	sw846 8260
Trans-1,3-Dichloropropene	<.5	sw846 8260
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	<.5	sw846 8260
1,1,2-Trichloroethane	<.5	sw846 8260
Trichlorofluoromethane (CFC-11)	<1	sw846 8260
1,2,3-Trichloropropane		

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-3S
Sample Date	4/15/2013

FORM 19**ANNUAL WATER QUALITY ANALYSES**

Subtitle D Detection Zone Add-On List: When the MCL of any analyte is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the ground water monitoring wells.

ORGANICS AND METALS (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromomethane)		
Bromodichloromethane (Dichlorobromomethane)	<.5	sw846 8260
Carbon Disulfide		
Chloroform (Trichloromethane)	<.5	sw846 8260
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene Bromide (Dibromomethane)		
Methyl Iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total		
Beryllium, Total		
Cobalt, Total		
Nickel, Total	61.2	EPA 200.8
Thallium, Total		
Vanadium, Total		
Nickel, Dissolved	49.6	EPA 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	OW-3S
Sample Date	4/15/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

4 Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

<u>Constituent</u>	<u>CAS Number</u>



Date Prepared/Revised 4/25/2013
DEP USE ONLY
Date Received

FORM 19
MUNICIPAL WASTE LANDFILLS
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 14R, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Section 273.284

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258

SECTION A. SITE IDENTIFIER

Applicant/permittee Baldwin Hardware Corporation

Site Name Baldwin Hardware Facility, Reading, PA

Facility ID (as issued by DEP) PAD 002350833

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")**.

Monitoring Point Number: PS-2

 Well Spring Stream Other

 Upgradient Downgradient

Location: County Berks

Municipality: Reading

Sampling Point: Latitude: 40° 19 ' 25.4 "

Longitude: 75° 56 ' 28.7 "

Depth to Water Level: N/A ft.

Measured From: Land Surface TOC

Casing Stickup: 2.74 ft.

Elevation of Water Level: N/A ft./MSL

Sampling Depth: N/A ft.

Volume of Water Column: N/A gal.

Total Well Depth: 380.00 ft.

Sample Method: Pumped Bailed GrabWell Purged Yes No

Well Volumes Purged: N/A

Sample Filtered (must be 0.45 micron)? Yes No

Spring Flow Rate: _____ GPM

Sample Date: (mm/dd/yy) 4/15/2013

Sample Collection Time: 1255

Sample Collector's Name: 15.7

Sample Collector's Affiliation: MJ Reider

Laboratory Performing Analysis MJ Reider 107 Angelica St. Reading, PA 19611

Were any holding times exceeded? Yes No If yes, please explain in comments field.

Lab Certification Number 06-003

Lab Sample Number: 0761-13-0015311

Final Lab Analysis Completion Date: 4/25/13

Name/Affiliation of Person who Filled out Form James C. Best Jr. - MJ Reider Assoc., Inc

Comments:

I.D. No.	PAD 002350833
Monitoring Point No.	PS-2
Sample Date	4/15/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

1-Q Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen*		
Bicarbonate (as CaCO ₃)*		
Calcium, Total*		
Calcium, Dissolved**		
Chemical Oxygen Demand*		
Chloride*	41.00	EPA 300.0
Fluoride		
Iron (µg/l), Total	<20	epa 200.7
Iron (µg/l), Dissolved**	<20	epa 200.7
Magnesium, Total*		
Magnesium, Dissolved**		
Manganese (µg/l), Total	3	epa 200.8
Manganese (µg/l), Dissolved**	4	epa 200.8
Nitrate-Nitrogen		
pH (standard units), Field*	7.4	sm4500h-b
pH (standard units), Laboratory*		
Potassium, Total*		
Potassium, Dissolved**		
Sodium, Total*	12.7	epa 200.7
Sodium, Dissolved**		
Specific Conductance (µmhos/cm), Field*	746	sm 2510b
Specific Conductance (µmhos/cm), Laboratory*		
Sulfate*	63	EPA 300.0
Total Alkalinity*		
Total Dissolved Solids		
Total Organic Carbon*	0.7	SM5310 C
Total Phenolics (µg/l)	13	EPA 420.4
Turbidity (NTU)		
Cyanide	<.004	10204001X
Temperature Before Sampling, °C	15.7	SM 2550B

* Indicator Analyte - For comparison with detection zone analytes.

† Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metal analysis.

I.D. No.	PAD 002350833
Monitoring Point No.	PS-2
Sample Date	4/15/2013

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

2-Q Organics (Enter all data in µg/l)

ANALYTE	VALUE†	ANALYSIS METHOD NUMBER
Benzene	<.5	sw846 8260
1, 2-Dibromoethane		
1, 1-Dichloroethane	<.5	sw846 8260
1, 1-Dichloroethene	<.5	sw846 8260
1, 2-Dichloroethane	<.5	sw846 8260
Cis 1, 2-Dichloroethene	0.6	sw846 8260
Trans-1,2-Dichloroethene	<.5	sw846 8260
Ethyl Benzene	<.5	sw846 8260
Methylene chloride	<.5	sw846 8260
Tetrachloroethene	<.5	sw846 8260
Toluene	<.5	sw846 8260
1, 1, 1-Trichloroethane	<.5	sw846 8260
Trichloroethene	1.3	sw846 8260
Vinyl chloride	<1	sw846 8260
Xylene	<.5	sw846 8260
2-Chloroethylvinyl Ether	<10	sw846 8260

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	PS-2
Sample Date	4/15/2013

FORM 19**ANNUAL WATER QUALITY ANALYSES**

1-A Metals (Enter all data in ug/l) If initial background analyses or four consecutive annual analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Arsenic, Total		
Arsenic, Dissolved		
Barium, Total	62	epa 200.8
Barium, Dissolved	61	epa 200.8
Cadmium, Total	<0.5	epa 200.8
Cadmium, Dissolved	<0.5	epa 200.8
Chromium, Total	3.4	epa 200.8
Chromium, Dissolved	3.5	epa 200.8
Copper, Total	4	epa 200.8
Copper, Dissolved	5	epa 200.8
Lead, Total	<1	epa 200.8
Lead, Dissolved	<1	EPA 200.8
Mercury, Total		
Mercury, Dissolved		
Selenium, Total		
Selenium, Dissolved		
Silver, Total	<0.5	EPA 200.8
Silver, Dissolved	<0.5	epa 200.8
Zinc, Total	6	epa 200.8
Zinc, Dissolved	8	epa 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	PS-2
Sample Date	4/15/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

2-A Organics (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Bromoform (Tribromomethane)	<2	sw846 8260
Bromomethane (Methyl Bromide)	<1	sw846 8260
Carbon Tetrachloride	<.5	sw846 8260
Chlorobenzene	<.5	sw846 8260
Chloroethane (Ethyl Chloride)	<1	sw846 8260
Dibromochloromethane (Chlorodibromomethane)	<.5	sw846 8260
Methyl Chloride (Chloromethane)	<1	sw846 8260
3-Chloro-1-propene		
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	sw846 8260
1,3-Dichlorobenzene (m-Dichlorobenzene)	<.5	sw846 8260
1,4-Dichlorobenzene (p-Dichlorobenzene)	<.5	sw846 8260
Dichlorodifluoromethane	<1	sw846 8260
1,2-Dichloropropane (Propylene Dichloride)	<.5	sw846 8260
Cis-1,3-Dichloropropene	<.5	sw846 8260
Trans-1,3-Dichloropropene	<.5	sw846 8260
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	<.5	sw846 8260
1,1,2-Trichloroethane	<.5	sw846 8260
Trichlorofluoromethane (CFC-11)	<1	sw846 8260
1,2,3-Trichloropropane		

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	PS-2
Sample Date	4/15/2013

FORM 19**ANNUAL WATER QUALITY ANALYSES**

Subtitle D Detection Zone Add-On List: When the MCL of any analyte is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the ground water monitoring wells.

ORGANICS AND METALS (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromomethane)		
Bromodichloromethane (Dichlorobromomethane)	<.5	sw846 8260
Carbon Disulfide		
Chloroform (Trichloromethane)	1.1	sw846 8260
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene Bromide (Dibromomethane)		
Methyl Iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total		
Beryllium, Total		
Cobalt, Total		
Nickel, Total	4.6	EPA 200.8
Thallium, Total		
Vanadium, Total		
Nickel, Dissolved	4.6	EPA 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	PS-2
Sample Date	4/15/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

4 Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

<u>Constituent</u>	<u>CAS Number</u>



Date Prepared/Revised 4/25/2013
DEP USE ONLY
Date Received

FORM 19
MUNICIPAL WASTE LANDFILLS
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 14R, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Section 273.284

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258

SECTION A. SITE IDENTIFIER

Applicant/permittee Baldwin Hardware Corporation

Site Name Baldwin Hardware Facility, Reading, PA

Facility ID (as issued by DEP) PAD 002350833

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")**.

Monitoring Point Number: PS-3

 Well Spring Stream Other

 Upgradient Downgradient

Location: County Berks

Municipality: Reading

Sampling Point: Latitude: 40° 19 ' 21 "

Longitude: 75° 56 ' 33 "

Depth to Water Level: N/A ft.

Measured From: Land Surface TOC

Casing Stickup: 0.00 ft.

Elevation of Water Level: N/A ft./MSL

Sampling Depth: N/A ft.

Volume of Water Column: N/A gal.

Total Well Depth: 559.00 ft.

Sample Method: Pumped Bailed GrabWell Purged Yes No

Well Volumes Purged: N/A

Sample Filtered (must be 0.45 micron)? Yes No

Spring Flow Rate: _____ GPM

Sample Date: (mm/dd/yy) 4/16/2013

Sample Collection Time: 1005

Sample Collector's Name: 13.3

Sample Collector's Affiliation: MJ Reider

Laboratory Performing Analysis MJ Reider 107 Angelica St. Reading, PA 19611

Were any holding times exceeded? Yes No If yes, please explain in comments field.

Lab Certification Number 06-003

Lab Sample Number: 0761-13-0015312 Final Lab Analysis Completion Date: 4/25/13

Name/Affiliation of Person who Filled out Form James C. Best Jr. - MJ Reider Assoc., Inc

Comments:

I.D. No.	PAD 002350833
Monitoring Point No.	PS-3
Sample Date	4/16/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

1-Q Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen*		
Bicarbonate (as CaCO ₃)*		
Calcium, Total*		
Calcium, Dissolved**		
Chemical Oxygen Demand*		
Chloride*	1.00	EPA 300.0
Fluoride		
Iron (µg/l), Total	420	epa 200.7
Iron (µg/l), Dissolved**	320	epa 200.7
Magnesium, Total*		
Magnesium, Dissolved**		
Manganese (µg/l), Total	31	epa 200.8
Manganese (µg/l), Dissolved**	31	epa 200.8
Nitrate-Nitrogen		
pH (standard units), Field*	6.8	sm4500h-b
pH (standard units), Laboratory*		
Potassium, Total*		
Potassium, Dissolved**		
Sodium, Total*	0.8	epa 200.7
Sodium, Dissolved**		
Specific Conductance (µmhos/cm), Field*	397	sm 2510b
Specific Conductance (µmhos/cm), Laboratory*		
Sulfate*	69	EPA 300.0
Total Alkalinity*		
Total Dissolved Solids		
Total Organic Carbon*	<.5	SM5310 C
Total Phenolics (µg/l)	<10	EPA 420.4
Turbidity (NTU)		
Cyanide	<.004	10204001X
Temperature Before Sampling, °C	13.3	SM 2550B

* Indicator Analyte - For comparison with detection zone analytes.

† Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metal analysis.

I.D. No.	PAD 002350833
Monitoring Point No.	PS-3
Sample Date	4/16/2013

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

2-Q Organics (Enter all data in µg/l)

ANALYTE	VALUE†	ANALYSIS METHOD NUMBER
Benzene	<.5	sw846 8260
1, 2-Dibromoethane		
1, 1-Dichloroethane	<.5	sw846 8260
1, 1-Dichloroethene	<.5	sw846 8260
1, 2-Dichloroethane	<.5	sw846 8260
Cis 1, 2-Dichloroethene	<.5	sw846 8260
Trans-1,2-Dichloroethene	<.5	sw846 8260
Ethyl Benzene	<.5	sw846 8260
Methylene chloride	<.5	sw846 8260
Tetrachloroethene	<.5	sw846 8260
Toluene	<.5	sw846 8260
1, 1, 1-Trichloroethane	<.5	sw846 8260
Trichloroethene	<.5	sw846 8260
Vinyl chloride	<1	sw846 8260
Xylene	<.5	sw846 8260
2-Chloroethylvinyl Ether	<10	sw846 8260

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	PS-3
Sample Date	4/16/2013

FORM 19**ANNUAL WATER QUALITY ANALYSES**

1-A Metals (Enter all data in ug/l) If initial background analyses or four consecutive annual analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Arsenic, Total		
Arsenic, Dissolved		
Barium, Total	45	epa 200.8
Barium, Dissolved	45	epa 200.8
Cadmium, Total	<0.5	epa 200.8
Cadmium, Dissolved	<0.5	epa 200.8
Chromium, Total	1.3	epa 200.8
Chromium, Dissolved	1.3	epa 200.8
Copper, Total	10	epa 200.8
Copper, Dissolved	<1	epa 200.8
Lead, Total	2	epa 200.8
Lead, Dissolved	<1	EPA 200.8
Mercury, Total		
Mercury, Dissolved		
Selenium, Total		
Selenium, Dissolved		
Silver, Total	<0.5	EPA 200.8
Silver, Dissolved	<0.5	epa 200.8
Zinc, Total	81	epa 200.8
Zinc, Dissolved	46	epa 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	PS-3
Sample Date	4/16/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

2-A Organics (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Bromoform (Tribromomethane)	<2	sw846 8260
Bromomethane (Methyl Bromide)	<1	sw846 8260
Carbon Tetrachloride	<.5	sw846 8260
Chlorobenzene	<.5	sw846 8260
Chloroethane (Ethyl Chloride)	<1	sw846 8260
Dibromochloromethane (Chlorodibromomethane)	<.5	sw846 8260
Methyl Chloride (Chloromethane)	<1	sw846 8260
3-Chloro-1-propene		
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	sw846 8260
1,3-Dichlorobenzene (m-Dichlorobenzene)	<.5	sw846 8260
1,4-Dichlorobenzene (p-Dichlorobenzene)	<.5	sw846 8260
Dichlorodifluoromethane	<1	sw846 8260
1,2-Dichloropropane (Propylene Dichloride)	<.5	sw846 8260
Cis-1,3-Dichloropropene	<.5	sw846 8260
Trans-1,3-Dichloropropene	<.5	sw846 8260
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	<.5	sw846 8260
1,1,2-Trichloroethane	<.5	sw846 8260
Trichlorofluoromethane (CFC-11)	<1	sw846 8260
1,2,3-Trichloropropane		

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	PS-3
Sample Date	4/16/2013

FORM 19**ANNUAL WATER QUALITY ANALYSES**

Subtitle D Detection Zone Add-On List: When the MCL of any analyte is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the ground water monitoring wells.

ORGANICS AND METALS (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromomethane)		
Bromodichloromethane (Dichlorobromomethane)	<.5	sw846 8260
Carbon Disulfide		
Chloroform (Trichloromethane)	<.5	sw846 8260
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene Bromide (Dibromomethane)		
Methyl Iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total		
Beryllium, Total		
Cobalt, Total		
Nickel, Total	1.8	EPA 200.8
Thallium, Total		
Vanadium, Total		
Nickel, Dissolved	1.9	EPA 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833
Monitoring Point No. PS-3
Sample Date 4/16/2013

FORM 19

4 Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.



Date Prepared/Revised 4/25/2013
DEP USE ONLY
Date Received

FORM 19
MUNICIPAL WASTE LANDFILLS
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 14R, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Section 273.284

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258

SECTION A. SITE IDENTIFIER

Applicant/permittee Baldwin Hardware Corporation

Site Name Baldwin Hardware Facility, Reading, PA

Facility ID (as issued by DEP) PAD 002350833

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")**.

Monitoring Point Number: PW-4

 Well Spring Stream Other

 Upgradient Downgradient

Location: County Berks

Municipality: Reading

Sampling Point: Latitude: 40° 19 ' 19 "

Longitude: 75° 56 ' 29.7 "

Depth to Water Level: 84.48 ft.

Measured From: Land Surface TOC

Casing Stickup: 0.00 ft.

Elevation of Water Level: 150.49 ft./MSL

Sampling Depth: 84.96 ft.

Volume of Water Column: N/A gal.

Total Well Depth: 297.00 ft.

Sample Method: Pumped Bailed GrabWell Purged Yes No

Well Volumes Purged: N/A

Sample Filtered (must be 0.45 micron)? Yes No

Spring Flow Rate: _____ GPM

Sample Date: (mm/dd/yy) 4/15/2013 Sample Collection Time: 1335

Sample Collector's Name: 15.3

Sample Collector's Affiliation: MJ Reider

Laboratory Performing Analysis MJ Reider 107 Angelica St. Reading, PA 19611

Were any holding times exceeded? Yes No If yes, please explain in comments field.

Lab Certification Number 06-003

Lab Sample Number: 0761-13-0015313 Final Lab Analysis Completion Date: 4/25/13

Name/Affiliation of Person who Filled out Form James C. Best Jr. - MJ Reider Assoc., Inc

Comments:

I.D. No.	PAD 002350833
Monitoring Point No.	PW-4
Sample Date	4/15/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

1-Q Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen*		
Bicarbonate (as CaCO ₃)*		
Calcium, Total*		
Calcium, Dissolved**		
Chemical Oxygen Demand*		
Chloride*	92.00	EPA 300.0
Fluoride		
Iron (µg/l), Total	<20	epa 200.7
Iron (µg/l), Dissolved**	<20	epa 200.7
Magnesium, Total*		
Magnesium, Dissolved**		
Manganese (µg/l), Total	<1	epa 200.8
Manganese (µg/l), Dissolved**	<1	epa 200.8
Nitrate-Nitrogen		
pH (standard units), Field*	7.6	sm4500h-b
pH (standard units), Laboratory*		
Potassium, Total*		
Potassium, Dissolved**		
Sodium, Total*	39.2	epa 200.7
Sodium, Dissolved**		
Specific Conductance (µmhos/cm), Field*	904	sm 2510b
Specific Conductance (µmhos/cm), Laboratory*		
Sulfate*	62	EPA 300.0
Total Alkalinity*		
Total Dissolved Solids		
Total Organic Carbon*	0.7	SM5310 C
Total Phenolics (µg/l)	16	EPA 420.4
Turbidity (NTU)		
Cyanide	<.004	10204001X
Temperature Before Sampling, °C	15.3	SM 2550B

* Indicator Analyte - For comparison with detection zone analytes.

† Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metal analysis.

I.D. No.	PAD 002350833
Monitoring Point No.	PW-4
Sample Date	4/15/2013

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

2-Q Organics (Enter all data in µg/l)

ANALYTE	VALUE†	ANALYSIS METHOD NUMBER
Benzene	<.5	sw846 8260
1, 2-Dibromoethane		
1, 1-Dichloroethane	1	sw846 8260
1, 1-Dichloroethene	<.5	sw846 8260
1, 2-Dichloroethane	<.5	sw846 8260
Cis 1, 2-Dichloroethene	1.4	sw846 8260
Trans-1,2-Dichloroethene	<.5	sw846 8260
Ethyl Benzene	<.5	sw846 8260
Methylene chloride	<.5	sw846 8260
Tetrachloroethene	0.7	sw846 8260
Toluene	<.5	sw846 8260
1, 1, 1-Trichloroethane	3.7	sw846 8260
Trichloroethene	0.9	sw846 8260
Vinyl chloride	<1	sw846 8260
Xylene	<.5	sw846 8260
2-Chloroethylvinyl Ether	<10	sw846 8260

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	PW-4
Sample Date	4/15/2013

FORM 19**ANNUAL WATER QUALITY ANALYSES**

1-A Metals (Enter all data in ug/l) If initial background analyses or four consecutive annual analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Arsenic, Total		
Arsenic, Dissolved		
Barium, Total	109	epa 200.8
Barium, Dissolved	109	epa 200.8
Cadmium, Total	<0.5	epa 200.8
Cadmium, Dissolved	<0.5	epa 200.8
Chromium, Total	5.2	epa 200.8
Chromium, Dissolved	5.4	epa 200.8
Copper, Total	1	epa 200.8
Copper, Dissolved	<1	epa 200.8
Lead, Total	<1	epa 200.8
Lead, Dissolved	<1	EPA 200.8
Mercury, Total		
Mercury, Dissolved		
Selenium, Total		
Selenium, Dissolved		
Silver, Total	<0.5	EPA 200.8
Silver, Dissolved	<0.5	epa 200.8
Zinc, Total	<5	epa 200.8
Zinc, Dissolved	<5	epa 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	PW-4
Sample Date	4/15/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

2-A Organics (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Bromoform (Tribromomethane)	<2	sw846 8260
Bromomethane (Methyl Bromide)	<1	sw846 8260
Carbon Tetrachloride	<.5	sw846 8260
Chlorobenzene	<.5	sw846 8260
Chloroethane (Ethyl Chloride)	<1	sw846 8260
Dibromochloromethane (Chlorodibromomethane)	<.5	sw846 8260
Methyl Chloride (Chloromethane)	<1	sw846 8260
3-Chloro-1-propene		
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	sw846 8260
1,3-Dichlorobenzene (m-Dichlorobenzene)	<.5	sw846 8260
1,4-Dichlorobenzene (p-Dichlorobenzene)	<.5	sw846 8260
Dichlorodifluoromethane	<1	sw846 8260
1,2-Dichloropropane (Propylene Dichloride)	<.5	sw846 8260
Cis-1,3-Dichloropropene	<.5	sw846 8260
Trans-1,3-Dichloropropene	<.5	sw846 8260
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	<.5	sw846 8260
1,1,2-Trichloroethane	<.5	sw846 8260
Trichlorofluoromethane (CFC-11)	<1	sw846 8260
1,2,3-Trichloropropane		

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	PW-4
Sample Date	4/15/2013

FORM 19**ANNUAL WATER QUALITY ANALYSES**

Subtitle D Detection Zone Add-On List: When the MCL of any analyte is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the ground water monitoring wells.

ORGANICS AND METALS (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromomethane)		
Bromodichloromethane (Dichlorobromomethane)	<.5	sw846 8260
Carbon Disulfide		
Chloroform (Trichloromethane)	<.5	sw846 8260
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene Bromide (Dibromomethane)		
Methyl Iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total		
Beryllium, Total		
Cobalt, Total		
Nickel, Total	4.9	EPA 200.8
Thallium, Total		
Vanadium, Total		
Nickel, Dissolved	4.7	EPA 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833
Monitoring Point No. PW-4
Sample Date 4/15/2013

FORM 19

4 Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.



Date Prepared/Revised 4/25/2013
DEP USE ONLY
Date Received

FORM 19
MUNICIPAL WASTE LANDFILLS
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 14R, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Section 273.284

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258

SECTION A. SITE IDENTIFIER

Applicant/permittee Baldwin Hardware Corporation

Site Name Baldwin Hardware Facility, Reading, PA

Facility ID (as issued by DEP) PAD 002350833

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")**.

Monitoring Point Number: PW-5

 Well Spring Stream Other

 Upgradient Downgradient

Location: County Berks

Municipality: Reading

Sampling Point: Latitude: 40° 19 ' 20 "

Longitude: 75° 56 ' 29 "

Depth to Water Level: 62.07 ft.

Measured From: Land Surface TOC

Casing Stickup: 0.00 ft.

Elevation of Water Level: 162.04 ft./MSL

Sampling Depth: 62.03 ft.

Volume of Water Column: N/A gal.

Total Well Depth: 197.00 ft.

Sample Method: Pumped Bailed GrabWell Purged Yes No

Well Volumes Purged: N/A

Sample Filtered (must be 0.45 micron)? Yes No

Spring Flow Rate: _____ GPM

Sample Date: (mm/dd/yy) 4/15/2013 Sample Collection Time: 1315

Sample Collector's Name: 13.7

Sample Collector's Affiliation: MJ Reider

Laboratory Performing Analysis MJ Reider 107 Angelica St. Reading, PA 19611

Were any holding times exceeded? Yes No If yes, please explain in comments field.

Lab Certification Number 06-003

Lab Sample Number: 0761-13-0015314 Final Lab Analysis Completion Date: 4/25/13

Name/Affiliation of Person who Filled out Form James C. Best Jr. - MJ Reider Assoc., Inc

Comments: _____

I.D. No.	PAD 002350833
Monitoring Point No.	PW-5
Sample Date	4/15/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

1-Q Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen*		
Bicarbonate (as CaCO ₃)*		
Calcium, Total*		
Calcium, Dissolved**		
Chemical Oxygen Demand*		
Chloride*	75.00	EPA 300.0
Fluoride		
Iron (µg/l), Total	<20	epa 200.7
Iron (µg/l), Dissolved**	<20	epa 200.7
Magnesium, Total*		
Magnesium, Dissolved**		
Manganese (µg/l), Total	<1	epa 200.8
Manganese (µg/l), Dissolved**	<1	epa 200.8
Nitrate-Nitrogen		
pH (standard units), Field*	7.5	sm4500h-b
pH (standard units), Laboratory*		
Potassium, Total*		
Potassium, Dissolved**		
Sodium, Total*	31.5	epa 200.7
Sodium, Dissolved**		
Specific Conductance (µmhos/cm), Field*	824	sm 2510b
Specific Conductance (µmhos/cm), Laboratory*		
Sulfate*	45	EPA 300.0
Total Alkalinity*		
Total Dissolved Solids		
Total Organic Carbon*	0.5	SM5310 C
Total Phenolics (µg/l)	<10	EPA 420.4
Turbidity (NTU)		
Cyanide	<.004	10204001X
Temperature Before Sampling, °C	13.7	SM 2550B

* Indicator Analyte - For comparison with detection zone analytes.

† Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metal analysis.

I.D. No.	PAD 002350833
Monitoring Point No.	PW-5
Sample Date	4/15/2013

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

2-Q Organics (Enter all data in µg/l)

ANALYTE	VALUE†	ANALYSIS METHOD NUMBER
Benzene	<.5	sw846 8260
1, 2-Dibromoethane		
1, 1-Dichloroethane	<.5	sw846 8260
1, 1-Dichloroethene	<.5	sw846 8260
1, 2-Dichloroethane	<.5	sw846 8260
Cis 1, 2-Dichloroethene	6.6	sw846 8260
Trans-1,2-Dichloroethene	<.5	sw846 8260
Ethyl Benzene	<.5	sw846 8260
Methylene chloride	<.5	sw846 8260
Tetrachloroethene	3	sw846 8260
Toluene	<.5	sw846 8260
1, 1, 1-Trichloroethane	1.4	sw846 8260
Trichloroethene	47	sw846 8260
Vinyl chloride	<1	sw846 8260
Xylene	<.5	sw846 8260
2-Chloroethylvinyl Ether	<10	sw846 8260

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	PW-5
Sample Date	4/15/2013

FORM 19**ANNUAL WATER QUALITY ANALYSES**

1-A Metals (Enter all data in ug/l) If initial background analyses or four consecutive annual analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Arsenic, Total		
Arsenic, Dissolved		
Barium, Total	130	epa 200.8
Barium, Dissolved	128	epa 200.8
Cadmium, Total	<0.5	epa 200.8
Cadmium, Dissolved	<0.5	epa 200.8
Chromium, Total	2	epa 200.8
Chromium, Dissolved	2	epa 200.8
Copper, Total	<1	epa 200.8
Copper, Dissolved	<1	epa 200.8
Lead, Total	<1	epa 200.8
Lead, Dissolved	<1	EPA 200.8
Mercury, Total		
Mercury, Dissolved		
Selenium, Total		
Selenium, Dissolved		
Silver, Total	<0.5	EPA 200.8
Silver, Dissolved	<0.5	epa 200.8
Zinc, Total	<5	epa 200.8
Zinc, Dissolved	<5	epa 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	PW-5
Sample Date	4/15/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

2-A Organics (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Bromoform (Tribromomethane)	<2	sw846 8260
Bromomethane (Methyl Bromide)	<1	sw846 8260
Carbon Tetrachloride	<.5	sw846 8260
Chlorobenzene	<.5	sw846 8260
Chloroethane (Ethyl Chloride)	<1	sw846 8260
Dibromochloromethane (Chlorodibromomethane)	<.5	sw846 8260
Methyl Chloride (Chloromethane)	<1	sw846 8260
3-Chloro-1-propene		
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	sw846 8260
1,3-Dichlorobenzene (m-Dichlorobenzene)	<.5	sw846 8260
1,4-Dichlorobenzene (p-Dichlorobenzene)	<.5	sw846 8260
Dichlorodifluoromethane	<1	sw846 8260
1,2-Dichloropropane (Propylene Dichloride)	<.5	sw846 8260
Cis-1,3-Dichloropropene	<.5	sw846 8260
Trans-1,3-Dichloropropene	<.5	sw846 8260
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	<.5	sw846 8260
1,1,2-Trichloroethane	<.5	sw846 8260
Trichlorofluoromethane (CFC-11)	<1	sw846 8260
1,2,3-Trichloropropane		

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	PW-5
Sample Date	4/15/2013

FORM 19**ANNUAL WATER QUALITY ANALYSES**

Subtitle D Detection Zone Add-On List: When the MCL of any analyte is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the ground water monitoring wells.

ORGANICS AND METALS (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromomethane)		
Bromodichloromethane (Dichlorobromomethane)	<.5	sw846 8260
Carbon Disulfide		
Chloroform (Trichloromethane)	<.5	sw846 8260
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene Bromide (Dibromomethane)		
Methyl Iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total		
Beryllium, Total		
Cobalt, Total		
Nickel, Total	5	EPA 200.8
Thallium, Total		
Vanadium, Total		
Nickel, Dissolved	5.1	EPA 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No.	PAD 002350833
Monitoring Point No.	PW-5
Sample Date	4/15/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

4 Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

<u>Constituent</u>	<u>CAS Number</u>